ATTACHMENT G
Region-Specific Requirements for Implementation of Total Maximum Daily Loads (TMDLs)

The following pages include amendments in accordance with Order 2017-XXXX-DWQ amending this Order (Order 2013-0001-DWQ, Phase II General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (Phase II Small MS4s), NPDES Permit CAS000004)

All changes are shown in Underline / ~~Strikeout~~ to show additions and deletions, respectively. The following exceptions apply:

- The order of Permittees in this document has been revised to alphabetize the Permittees according to name, under each specific TMDL. To aid in readability, changes in the listing order of the Permittees included in this Order, as adopted in 2013, are not shown in Underline/Strikeout.
- Formatting changes are not shown in Underline/Strikeout

Throughout Attachment G, the convention for future dates will be shown as [Hard Date: *text*], where the descriptive text will describe what the specific date will be at the time of adoption.

In the track changes version of this document there will be instances of expansive spacing; this formatting issue is addressed in the clean version of this document also published.

ATTACHMENT G – Region- Specific Requirements
Regional Water Board- Approved TMDLs with urban runoff listed as a source

TMDL Effective Date of Basin Plan Amendment (BPA) Water Board Resolution No.	MunicipalityPhase II Entities	Impaired Water Body	Deliverables/Actions RequiredWaste Load Allocations
Region 1: North Coast Regional Water Board			
Laguna de Santa Rosa *Ammonia & Dissolved Oxygen* Effective Date: May 4, 1995 BPA: none Resolution No.: none	City of Cotati City of Rohnert Park City of Sebastopol Town of Windsor	Laguna de Santa Rosa	**Purpose of Provisions** The purpose of these provisions is to implement the requirements of the Waste Reduction Strategy for the Laguna de Santa Rosa which includes TMDLs for nitrogen and ammonia to address low dissolved oxygen and high ammonia impairments. **Requirements for Implementing the Waste Reduction Strategy for the Laguna de Santa Rosa** Implement a storm water runoff program that is aimed at nutrient load reduction and pollution control through the execution of the provisions of this Phase II Small MS4 General Permit.
TMDL for Shasta River Watershed *Temperature & Dissolved Oxygen* Effective Date: January 26, 2007 BPA: Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen Total Maximum Daily Loads Resolution R1-2006-0052	City of Yreka	Shasta River	**Purpose of Provisions** The purpose of these provisions is to implement the requirements of the Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen TMDLs. **Requirements for Implementing the Action Plan for the Shasta River Watershed Temperature and Dissolved Oxygen TMDLs** Within one year of approval of the Phase II Small MS4 General Permit, tThe City of Yreka shall developed a Plan to minimize, control, and preferably prevent discharges of fine sediment, nutrients and other oxygen-consuming materials, and elevated water temperature waste discharge from affecting waters of the Shasta River and its tributaries. The Plan shall be submitted to the Regional Water Board Executive Officer for review, comment, and approvaled the City of Yreka's Plan. No later than Within four years of approval of the Phase II Small MS4 General PermitJuly 1, 2017, the City of Yreka shall begin implementing the Plan. The TMDL does not specify a wasteload or load allocation for the City of Yreka.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
TMDL for Napa River *Sediment* Effective Date: January 20, 2011 BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs Resolution R2-2009-0064	City of American Canyon City of Calistoga City of St. Helena City of Napa Napa County Town of Yountville	Napa River	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the Napa River sediment TMDL.~~ ~~**TMDL Wasteload and Load Allocations**~~ ~~The Napa River sediment TMDL assigns to municipal storm water a wasteload allocation and load allocation for the roads source category.~~ ~~The sediment wasteload allocation is 600 tons/year and applies to storm water runoff discharges from municipalities' facilities associated with construction and/or maintenance activities.~~ ~~The load allocation 27,000 metric tons/year of sediment is for the road and stream crossings category and applies to stream crossings and storm water runoff discharges associated with operation of public and private roads, paved and unpaved, within the watershed not otherwise covered by NPDES permits. Municipalities share this allocation with another entity (i.e., Caltrans).~~ **Requirements for Implementing the ~~Napa River Sediment~~ TMDL ~~Wasteload and Load Allocations~~** **A. Implementation of Sediment Wasteload Allocations (WLAs)** i. To attain the wasteload allocation, municipalities identified in this TMDL section shall comply with the construction and maintenance storm water requirements, sections E.10 and E.11, in this Order. **B. Implementation of Sediment Load Allocations (LAs)** i. To attain the shared load allocation of 27,000 metric tons/year, municipalities identified in this TMDL section shall ~~determine~~implement opportunities to retrofit and/or reconstruct~~ion of~~ road crossings to minimize road-related sediment delivery (≤500 cubic yards/mile per 20-year period) to stream channels. Specifically, to reduce road-related erosion and protect stream-riparian habitat conditions, the municipalities shall by September 30, 2017~~October 31, 2014~~: • ~~Adopt and~~ Continue to implement best management practices for maintenance of unimproved (dirt/gravel) roads, • ~~Conduct~~Finalize a survey of stream-crossings associated with paved public roadways, and • ~~Develop~~ By [Hard Date: one year from adoption date], submit a schedule ~~a prioritized implementation plan~~ for the ~~repair~~retrofit and/or replacement of high priority crossings/culverts to the Regional Water Board Executive Officer for approval. For paved roads, erosion and sediment control actions shall primarily focus on road crossings to meet

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
			the sediment load allocation. The Wasteload Allocation (WLA) and Load Allocation (LA) specified in the Fact Sheet are incorporated by reference. The final compliance deadline for the WLA and LA is not specified in the TMDL.
TMDL for Sonoma Creek *Sediment* Effective Date: September 8, 2010 BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs Resolution ~~No.~~ R2-2008-0103	City of Sonoma County of Sonoma	Sonoma Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the Sonoma Creek sediment TMDL.~~ ~~**TMDL Wasteload and Load Allocations**~~ ~~The Sonoma Creek sediment TMDL assigns to municipal storm water a wasteload allocation and load allocation for the roads source category.~~ ~~The sediment wasteload allocation is 600 tons/year and applies to storm water runoff discharges from municipalities' facilities associated with construction and/or maintenance activities.~~ ~~The load allocation 2,100 tons/year of sediment is for the road and stream crossings category and applies to stream crossings and storm water runoff discharges associated with operation of public and private roads, paved and upaved, within the watershed not otherwise covered by NPDES permits. Municipalities share this allocation with another entity (i.e., Caltrans).~~ **Requirements for Implementing the ~~Sonoma Creek Sediment~~ TMDL ~~Wasteload and Load Allocations~~** **A. Implementation of Sediment Wasteload Allocations** i. To attain the wasteload allocation, ~~municipalities~~ Phase II entities identified in this TMDL section shall comply with the construction and maintenance requirements, sections E.10 and E.11, of this Order. ~~i.~~ii. The municipalities identified in this TMDL section shall continue to implement actions proposed in their Storm Water Management Plans approved under the 2003 Permit[1] to attenuate peak flows and durations from new and redevelopment projects. Implementation requirements for implementation actions are incorporated herein by reference. Municipalities may propose amendments to those Implementation Actions by submitting an updated Storm Water Management Plan to the Regional Water Board. **B. Implementation of Sediment Load Allocations** i. To attain the shared load allocation of 2,100 tons/year, municipalities identified in this TMDL

[1] 2003-0005-DWQ

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
TMDL for Sonoma Creek *Sediment* (Continued)			section shall ~~determine~~implement opportunities to retrofit and/or reconstruct~~ion of~~ road crossings to minimize road-related sediment delivery to stream channels. Effective immediately~~Specifically~~, to reduce road-related erosion and protect stream-riparian habitat conditions, the municipalities shall implement the following actions: • ~~Adopt and~~ Continue to ~~i~~Implement best management practices for maintenance of unimproved (dirt/gravel) roads, • ~~Conduct~~ Finalize a survey of stream-crossings associated with paved public roadways, and • ~~Develop~~By [Hard Date: one year from adoption date], submit a schedule ~~a prioritized implementation plan~~ for the ~~repair~~retrofit and/or replacement of high priority crossings/culverts to the Regional Water Board Executive Officer for approval. For paved roads, erosion and sediment control actions shall primarily focus on road crossings to meet the sediment load allocation. The Wasteload Allocation and Load Allocation specified in the Fact Sheet are incorporated by reference. The final compliance deadline for the wasteload allocations and load allocations is not specified in the TMDL. Attenuation of peak flows and durations from new and redevelopment projects: Applicable Immediately
	Sonoma County Water Agency	Sonoma Creek	**Requirements for Sonoma County Water Agency for Implementing TMDL** 1. The Sonoma County Water Agency shall continue to implement actions as specified in the Storm Water Management Plan approved under the prior 2003 General Permit[2] including actions to attenuate peak flows and durations from new and redevelopment projects. Implementation requirements for implementation actions are incorporated herein by reference. The Sonoma County Water Agency may propose amendments to those Implementation Actions by submitting an updated Storm Water Management Plan to the Regional Water Board. 2. Report progress on implementation of sediment reduction measures in the Annual Report. The Load Allocation (LA) and Waste Load Allocation (WLA) specified in the Fact Sheet are incorporated by reference. The final compliance deadline for the WLA and LA is not specified in the TMDL. Attenuation of peak flows and durations from new and redevelopment projects: Applicable Immediately
TMDL for Napa River *Pathogens* Effective Date: February 29,	City of American Canyon	Napa River	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the Napa River pathogens TMDL.~~ ~~**TMDL Wasteload Allocations**~~ ~~The Napa River pathogens TMDL assigns a wasteload allocation to municipal storm water as follows:~~

[2] ~~2003-0005-DWQ~~

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

<table>
<tr><th>TMDL
Effective Date
Basin Plan Amendment (BPA)
Water Board Res. No.</th><th>Phase II ~~Municipality~~ Entities</th><th>Impaired Water Body</th><th>Deliverables/Actions Required~~/Waste Load Allocations~~</th></tr>
<tr><td colspan="4">Region 2: San Francisco Regional Water Board</td></tr>
<tr><td>2008

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution No. R2-2006-0079</td><td>City of Calistoga

City of St. Helena

City of Napa

Napa County

Town of Yountville</td><td></td><td>
<table>
<tr><th colspan="2">~~E.coli (CFU/100 mL)~~</th><th colspan="2">~~Fecal coliform (CFU/100 mL)~~</th><th colspan="2">~~Total coliform (CFU/100 mL)~~</th></tr>
<tr><th>~~Geometric Mean~~</th><th>~~90th percentile~~</th><th>~~Geometric Mean~~</th><th>~~90th percentile~~</th><th>~~Geometric Mean~~</th><th>~~90th percentile~~</th></tr>
<tr><td>~~<113~~</td><td>~~<368~~</td><td>~~<180~~</td><td>~~<360~~</td><td>~~<216~~</td><td>~~<9,000~~</td></tr>
</table>
~~These allocations are applicable year-round and apply to any sources (existing or future) subject to regulation by NPDES permit.~~

Requirements for Implementing the ~~Napa River Pathogens~~ TMDL ~~Wasteload Allocations~~
~~Municipalities~~ The Phase II entities identified in this TMDL section shall implement the following actions, effective immediately~~, within 18 months of permit adoption~~:
i. Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.
ii. Pet Waste Management. ~~Develop and i~~Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.
iii. Illicit Discharge Detection and Elimination. ~~Develop and i~~Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to the Napa River.
iv. Pollution Prevention and Good Housekeeping. ~~Develop and i~~Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to the Napa River.
~~iv.~~v. As indicated in the TMDL, participate in the Regional Water Board's stakeholder effort to conduct water quality monitoring at baseline monitoring sites.
~~v.~~vi. Conduct baseline water quality monitoring to evaluate E.coli concentration trends in the Napa River and its tributaries. Table 7-g in Chapter 7, Water Quality Attainment Strategies, presents locations and frequency for the required baseline water quality monitoring.
vii. Report ~~annually~~yearly, in the Annual Report, (~~on water quality monitoring results and~~ participation in the stakeholder group and progress made on implementation of human and animal runoff reduction measures.

The load allocations identified in the Fact Sheet of this Order are incorporated by reference. A final compliance deadline for compliance with the LA is not specified in the TMDL.</td></tr>
<tr><td>TMDL for Sonoma Creek
Pathogens

Effective Date: February 29, 2008</td><td>City of Sonoma

County of</td><td>Sonoma Creek</td><td>~~Purpose of Provisions~~
~~The purpose of these provisions is to implement the requirements of the Sonoma Creek pathogens TMDL.~~

~~TMDL Wasteload Allocations~~
~~The Sonoma Creek pathogens TMDL assigns a wasteload allocation to municipal storm water as~~</td></tr>
</table>

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

<table>
<tr><th>TMDL
Effective Date
Basin Plan Amendment (BPA)
Water Board Res. No.</th><th>Phase II ~~Municipality~~ Entities</th><th>Impaired Water Body</th><th>Deliverables/Actions Required~~/Waste Load Allocations~~</th></tr>
<tr><td colspan="4">Region 2: San Francisco Regional Water Board</td></tr>
<tr><td rowspan="2">TMDL for Sonoma Creek
Pathogens
(Continued)

BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs

Resolution No. R2-2006-0042</td><td>Sonoma</td><td></td><td>~~follows:~~

<table>
<tr><th colspan="2">~~E.coli (CFU/100 mL)~~</th><th colspan="2">~~Fecal coliform (CFU/100 mL)~~</th><th colspan="2">~~Total coliform (CFU/100 mL)~~</th></tr>
<tr><td>~~Geometric Mean~~</td><td>~~90th percentile~~</td><td>~~Geometric Mean~~</td><td>~~90th percentile~~</td><td>~~Geometric Mean~~</td><td>~~90th percentile~~</td></tr>
<tr><td>~~<113~~</td><td>~~<368~~</td><td>~~<180~~</td><td>~~<360~~</td><td>~~<216~~</td><td>~~<9,000~~</td></tr>
</table>
~~These allocations are applicable year-round and apply to any sources (existing or future) subject to regulation by NPDES permit.~~

Requirements for Implementing the ~~Sonoma Creek Pathogens~~ TMDL ~~Wasteload Allocations~~

The Phase II entities identified in this TMDL section ~~Municipalities~~ shall implement the following actions, effective immediately:~~, within 18 months of permit adoption:~~

i. Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.
ii. Pet Waste Management. ~~Develop and i~~Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste.
iii. Illicit Discharge Detection and Elimination. ~~Develop and i~~Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Sonoma Creek.
iv. Pollution Prevention and Good Housekeeping. ~~Develop and i~~Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to Sonoma Creek.
v. Conduct baseline water quality monitoring to evaluate E.coli concentration trends in Sonoma Creek and its tributaries. Table 7-n in Chapter 7, Water Quality Attainment Strategies, presents locations and frequency for the required baseline water quality monitoring.
vi. Report ~~annually~~ yearly in the Annual Report on water quality monitoring results and progress made on implementation of human and animal runoff reduction measures.

The wasteload allocations (WLA) identified in the Fact Sheet of this Order are incorporated by reference. A final compliance deadline for compliance with the WLA is not specified in the TMDL.</td></tr>
<tr><td></td><td></td><td>Requirements for Sonoma County Water Agency for Implementing TMDL</td></tr>
</table>

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

<table>
<tr><th>TMDL
Effective Date
Basin Plan Amendment (BPA)
Water Board Res. No.</th><th>Phase II Municipality Entities</th><th>Impaired Water Body</th><th>Deliverables/Actions Required/Waste Load Allocations</th></tr>
<tr><td colspan="4">Region 2: San Francisco Regional Water Board</td></tr>
<tr><td></td><td>Sonoma County Water Agency</td><td>Sonoma Creek</td><td>The Sonoma County Water Agency shall:
1. Continue to implement actions as specified in the Storm Water Management Plan approved under the 2003 General Permit[3].
2. Review annually and update as necessary the TMDL compliance actions to include specific measures to reduce pathogen loading.
3. Report progress on implementation of pathogen reduction measures in the Annual Report.

The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. A final compliance deadline for compliance with the WLA is not specified in the TMDL.</td></tr>
<tr><td>TMDL for Tomales Bay
Pathogens
Effective Date: February 8, 2007
BPA: Chapter 4, Surface Water Protection and Management, Nonpoint Source Control

Resolution No. R2-2005-0046

TMDL for Tomales Bay
Pathogens
(Continued)</td><td>Marin County</td><td>Tomales Bay

Lagunitas Creek

Walker Creek

Olema Creek</td><td>Purpose of Provisions
The purpose of these provisions is to implement the requirements of the Tomales Bay pathogens TMDL.

TMDL Wasteload Allocations
The Tomales Bay pathogens TMDL assigns a wasteload allocation to municipal storm water as follows:
<table>
<tr><th colspan="3">Fecal Coliform[a]
(MPN/100 mL)</th></tr>
<tr><th colspan="2">For Direct Discharges to Tomales Bay</th><th>For Discharges to Major Tomales Bay Tributaries</th></tr>
<tr><th>Median[b]</th><th>90th percentile[c]</th><th>Log Mean[b]</th></tr>
<tr><td><14</td><td><43</td><td><200</td></tr>
</table>
[a] These allocations are applicable year-round and apply to any sources (existing or future) subject to regulation by NPDES permit.
[b] Based on a minimum of five consecutive samples equally spaced over a 30-day period.
[c] No more than 10% of total samples during any 30-day period may exceed this number

Requirements for Implementing the Tomales Bay Pathogens TMDL Wasteload Allocations

The MunicipalitiesPhase II entities identified in this TMDL section shall implement the following actions, effective immediately, by within 18 months of permit adoption,:

i. Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.

ii.i.</td></tr>
</table>

[3] 2003-0005-DWQ

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
			~~iii.~~ Pet Waste Management. ~~Develop and i~~Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste. ~~iv.~~ii. ~~v.~~ Illicit Discharge Detection and Elimination. ~~Develop and i~~Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Tomales Bay. ~~vi.~~iii. ~~vii.~~ Pollution Prevention and Good Housekeeping. ~~Develop and i~~Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to Tomales Bay. ~~viii.~~iv. v. Report ~~annually~~ yearly in the Annual Report on water quality monitoring results and progress made on implementation of human and animal runoff reduction measures. The wasteload allocations (WLA) identified in the Fact Sheet of this Order are incorporated by reference. A final compliance deadline for compliance with the WLA is not specified in the TMDL.
TMDL for Richardson Bay *Pathogens* Effective Date: December 18, 2009 BPA: Chapter 7, Water Quality Attainment Strategies including TMDLs Resolution No. R2-2008-0061	City of Belvedere Marin County City of Mill Valley City of Sausalito City of Tiburon	Richardson Bay	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the Richardson Bay pathogens TMDL.~~ ~~**TMDL Wasteload Allocations**~~ ~~The Richardson Bay pathogens TMDL assigns a wasteload allocation to municipal storm water as follows:~~ ~~Fecal Coliform[a] (MPN/100 mL)~~ ~~Median[b]~~ | ~~90th Percentile[c]~~ ~~<14~~ | ~~<43~~ ~~[a] These allocations are applicable year-round.~~ ~~[b] based on a minimum of five consecutive samples equally spaced over a 30-day period~~ ~~[c] No more than 10% of total samples during any 30-day period may exceed this number~~ **Requirements for Implementing the ~~Richardson Bay Pathogens~~ TMDL ~~Wasteload Allocations~~** The ~~Municipalities~~Phase II entities identified in this TMDL section shall implement the following actions, effective immediately: ~~by within 18 months of permit adoption:~~ ~~i.~~ Public Participation and Outreach. Educate the public regarding sources of fecal coliform and associated health risks of fecal coliform in surface waters. Educate the public regarding actions that individuals can take to reduce pathogen loading.

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Regional Water Board - Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
			~~ii.~~i. ~~iii.~~ii. Pet Waste Management. ~~Develop and i~~Implement enforceable means of reducing/eliminating fecal coliform loading from pet waste. ~~iv.~~iii. Illicit Discharge Detection and Elimination. ~~Develop and i~~Implement strategies to detect and eliminate illicit discharges (whether mistaken or deliberate) of sewage to Richardson Bay. ~~v.~~iv. Pollution Prevention and Good Housekeeping. ~~Develop and i~~Implement strategies to reduce/eliminate fecal coliform loading from streets, parking lots, sidewalks, and other urban areas that potentially collect and discharge fecal coliform to Richardson Bay. ~~vi.~~v. Report ~~annually~~ yearly in the Annual Report on progress made on implementation of pathogen reduction measures. The wasteload allocations (WLA) identified in the Fact Sheet of this Order are incorporated by reference. A final compliance deadline for compliance with the WLA is not specified in the TMDL.
~~**TMDL** Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.~~	~~**Municipality**~~	~~**Impaired Water Body**~~	~~**Deliverables/Actions Required/Waste Load Allocations**~~
~~**Region 2: San Francisco Regional Water Board**~~			

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Regional Water Board- Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
TMDL for Urban Creeks *Diazinon & Pesticide Toxicity* Effective Date: May 16, 2007 BPA: BPA – Chapter 3, Toxicity Resolution No. R2-2005-0063 ~~**Urban Creek**~~ ~~*Diazinon & Pesticide Toxicity*~~ ~~(continued)~~	City of Belvedere Town of Corte Madera Town of Fairfax City of Larkspur Marin County City of Mill Valley City of Novato City of Petaluma Town of Ross Town of San Anselmo City of San Rafael City of Sausalito City of Sonoma County of Sonoma Town of Tiburon	Arroyo Corte Madera del Presidio Corte Madera Creek Coyote Creek (Marin Co.) Gallinas Creek Miller Creek Novato Creek San Antonio Creek San Rafael Creek Petaluma River Calabazas Creek	~~**Purpose of Provision**~~ ~~The purpose of the following provisions is to prevent the impairment of urban streams by pesticide-related toxicity. This provision implements requirements of the TMDL for Diazinon and Pesticide Related Toxicity for Urban Creeks in the San Francisco Bay Region. Pesticides of concern include: organophosphorous pesticides (chlorpyrifos, diazinon, and malathion); pyrethroids (bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, and tralomethrin); carbamates (e.g., carbaryl); and fipronil.~~ ~~**Wasteload Allocations**~~ ~~Diazinon: 100 ng/l~~ ~~Toxicity: 1.0 TUa (acute toxicity units) and 1.0 TUc (chronic toxicity units)~~ **Requirements for Implementing the TMDL~~Wasteload Allocations~~** Urban runoff management agencies' responsibilities for addressing the allocations set ~~above~~in the TMDL will be satisfied by complying with the requirements set forth below. Permittees identified in this TMDL section may coordinate with the Bay Area Storm ~~w~~Water Management Agencies Association, the Urban Pesticide Pollution Prevention Project, the Urban Pesticide Committee, and other agencies and organizations in carrying out these activities. **A. ~~Adopt~~Implement ~~a~~the Pesticide-Related Toxicity Control Program** To prevent the impairment of urban streams by pesticide-related toxicity, the Phase II entities identified in this TMDL section shall ~~adopt~~implement an Integrated Pest Management Policy (IPM) or Ordinance, applicable to all the permittees' operations and property, as described in the ~~Basin Plan amendment (Implementation Section) for this TMDL~~Fact Sheet of this Order. ~~The IPM Policy or Ordinance shall be adopted by the permittee's governing body within 18 months of permit adoption~~ ~~**B. Implement the Pesticide-Related Toxicity Control Program**~~ Implementation actions shall include: • Ensure all municipal employees who apply or use pesticides within the scope of their duties are trained in the IPM practices and policy/ordinance. • Require all contractors to implement the IPM policy/ordinance. • Keep the County Agricultural Commissioners informed of water quality issues related to pesticides and of violations of pesticides regulations (e.g., illegal handling) associated with storm water management. • Conduct outreach to residents and pest control applicators on less toxic methods of pest

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Res. No.	Phase II ~~Municipality~~ Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 2: San Francisco Regional Water Board			
			control. • Keep records of the permittees' own use of pesticides of concern and the pesticide use by the permittees' hired contractors. Report on pesticide use when requested by the Regional Water Board. • Monitor water and sediment for pesticides and associated toxicity in urban creeks via an individual or regional program designed to answer the following questions: o Are the TMDL toxicity targets being met? o Is toxicity observed in urban creeks caused by a pesticide? o Is urban runoff the source of any observed toxicity in urban creeks? o How does observed pesticide-related toxicity in urban creeks (or pesticide concentrations contributing to such toxicity) vary in time and magnitude across urban creek watersheds, and what types of pest control practices contribute to such toxicity? o Are actions already being taken to reduce pesticide discharges sufficient to meet the targets, and if not, what should be done differently? The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. A final compliance deadline for compliance with the WLA is not specified in the TMDL.

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities~~Municipality~~**	**Impaired Water Body**	**Deliverables/Actions Required~~/Waste Load Allocations~~**
Region 3: Central Coast Regional Water Board			
TMDL and Implementation Plan ~~for Pathogens~~ for Morro Bay and Chorro and Los Osos Creeks *Pathogens* Effective Date: 11/19/2003 BPA: Chapter 4 Resolution No. R3-2003-0060	City of Morro Bay County of San Luis Obispo	Morro Bay Chorro Creek Los Osos Creek Pennington Creek ~~San Bernardo Creek~~ ~~San Luisito Creek~~ ~~Walters Creek~~ Warden Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the Morro Bay (Chorro and Los Osos Creeks) Pathogen TMDL.~~ ~~**TMDL Wasteload Allocations**~~ ~~The City of Morro Bay and County of San Luis Obispo are assigned the following wasteload allocations: 1) for discharges to Los Osos Creek, Chorro Creek, and their tributaries, the fecal coliform geometric mean concentration shall not exceed 200 MPN/100 mL over a 30-day period nor shall 10% of the samples exceed 400 MPN/100 mL over any 30-day period. 2) For discharges to Morro Bay, the fecal coliform geometric mean concentration of 14 MPN/100 mL must be achieved and no more than 10% of the samples may be over 43 MPN/100 mL.~~ ~~**Provisions**~~**Requirements for Implementing the TMDL** ~~Within one year of adoption of this Order~~Effective immediately, the Phase II entities identified in this TMDL section~~City of Morro Bay and County of San Luis Obispo~~ (hereafter referred to in this TMDL section as "the MS4") shall each ~~develop, submit, and begin implementation~~implement ~~of~~ a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new

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Regional Water Board - Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL and Implementation Plan ~~for Pathogens~~ for Morro Bay and Chorro and Los Osos Creeks *Pathogens* (Continued)			information is obtained. 7. ~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL~~ A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation achieved the MS4's wasteload allocation. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. ~~7.~~ Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4's wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. Where TMDL compliance schedules have passed, but Wasteload Allocations have not been achieved by [Hard Date, date of adoption], the MS4 shall consult with the Regional Water Board to establish dates to meet new interim targets and to achieve wasteload allocations. At least one interim target and date must occur during the first five-year term of this Order. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm W~~w~~ater Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~13.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
			impairment. ~~All allocations shall be achieved by November 19, 2013.~~ The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations were required to be achieved by November 19, 2013, and are effective immediately.
TMDL and Implementation Plan for Watsonville Slough *Pathogens* Effective Date: 11/20/2006 BPA: Chapter 4 Resolution No. R3-2006-0025	County of Santa Cruz City of Watsonville	Watsonville Slough Struve Slough Harkins Slough Gallighan Slough Hanson Slough	**~~Provisions~~ Requirements for Implementing the TMDL** ~~The City and County public participation and outreach efforts must include the following tasks: a) Educating the public about sources of fecal coliform and its associated health risks in surface waters; and b) Identifying and promoting specific actions that responsible parties can implement to reduce pathogen loading from sources such as homeless encampments, agricultural field workers, and homeowners who contribute waste from domestic pets.~~ Effective immediately, the Phase II entities identified in this TMDL section ~~County of Santa Cruz and City of Watsonville~~ shall implement practices that will assure their allocation is achieved. The Phase II entities identified in this TMDL section ~~he County of Santa Cruz and City of Watsonville~~ (hereafter referred to in this TMDL section as "the MS4") shall each implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL and Implementation Plan for Watsonville Slough *Pathogens* (C~~c~~ontinued)			6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. Where TMDL compliance schedules have passed, but Wasteload Allocations have not been achieved by [Hard Date, date of adoption], the MS4 shall consult with the Regional Water Board to establish dates to meet new interim targets and to achieve wasteload allocations. At least one interim target and date must occur during the five-year term of this Order. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm ~~w~~Water Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program.

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Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL and Implementation Plan for Watsonville Slough *Pathogens* (Continued)			14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation ~~items identified above~~. The MS4 public participation and outreach efforts must include the following tasks: a) Educating the public about sources of fecal coliform and its associated health risks in surface waters; and b) Identifying and promoting specific actions that responsible parties can implement to reduce pathogen loading from sources such as homeless encampments, agricultural field workers, and homeowners who contribute waste from domestic pets. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations shall be achieved by November 20, 2016.
TMDL for ~~Fecal Coliform in~~ Pajaro River, San Benito River, Llagas Creek, Tequesquita Slough, San Juan Creek, Carnadero/Uvas Creek, Bird Creek, Pescadero Creek, Tres Pinos Creek, Furlong (Jones) Creek, Santa Ana Creek, Pachecho Creek *Fecal Coliform* Effective Date: 07/12/2010 BPA: Chapter 4 Resolution No. RB3-2009-0008	City of Gilroy City of Hollister County of Monterey City of Morgan Hill County of Santa Clara County of Santa Cruz City of Watsonville	Pajaro River San Benito River Llagas Creek Tequesquita Slough San Juan Creek Carnadero/Uvas Creek Bird Creek Pescadero Creek Tres Pinos Creek Furlong (Jones) Creek Santa Ana Creek Pachecho Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the Pajaro River, San Benito River, Llagas Creek, Tequesquita Slough, San Juan Creek, Carnadero/Uvas Creek, Bird Creek, Pescadero Creek, Tres Pinos Creek, Furlong (Jones) Creek, Santa Ana Creek, and Pachecho Creek Fecal Coliform TMDL.~~ ~~**TMDL Wasteload Allocations**~~ ~~The Cities of Hollister, Morgan Hill, Gilroy and Watsonville and the Counties of Monterey, Santa Clara and Santa Cruz are assigned the following concentration based wasteload allocation: Fecal coliform concentration, based on a minimum of five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100mL, nor shall more than ten percent of total samples collected during any 30-day period exceed 400 MPN per 100mL.~~ ~~These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.~~ ~~The Counties of Santa Cruz, Santa Clara and Monterey and the Cities of Hollister, Morgan Hill, Gilroy and Watsonville are assigned allocations in the following water bodies: Pajaro River, San Benito River, Llagas Creek and Tequisquita Slough.~~ **Requirements ~~Provisions~~ for Implementing the TMDL** Effective immediately, ~~Within one year of adoption of this Order~~ the Phase II entities identified in this TMDL section ~~Cities of Hollister, Morgan Hill, Gilroy and Watsonville and the Counties of Monterey, Santa Clara and Santa Cruz~~ (hereafter referred to in this TMDL section as "the MS4") shall each ~~develop, submit, and begin implementation of~~ implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL

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Regional Water Board- Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for ~~Fecal Coliform in~~ Pajaro River, San Benito River, Llagas Creek, Tequesquita Slough, San Juan Creek, Carnadero/Uvas Creek, Bird Creek, Pescadero Creek, Tres Pinos Creek, Furlong (Jones) Creek, Santa Ana Creek, Pachecho Creek *Fecal Coliform* (C~~c~~ontinued)			schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. ~~6.~~7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. ~~eric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. ~~7.~~8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner. ~~At least one interim target and date must occur during the five-year term of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities Municipality	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 3: Central Coast Regional Water Board			
			implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. 9.10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm wWater Program Effectiveness Assessment Guide. 10.11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 11.12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 12.13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. 13.14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations All allocations shall be achieved by July 12, 2023.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
~~Morro Bay~~ TMDL for Morro Bay ~~Sediment~~ (including Chorro Creek, Los Osos Creek, and the Morro Bay Estuary) *Sediment* Effective Date: 12/3/2003 BPA: Chapter 4 Resolution No. R3-2002-0051	County of San Luis Obispo	Morro Bay Los Osos Creek Chorro Creek Dairy Creek Pennington Creek ~~San Luisito Creek~~ ~~San Bernardo Creek~~ Warden Creek	**~~Purpose of Provisions~~** ~~The purpose of these provisions is to implement the requirements of the Morro Bay TMDL for sediment.~~ **~~TMDL Wasteload and Load Allocations~~** ~~The County of San Luis Obispo is assigned a wasteload allocation of 5,137 tones/year of sediment. This allocation represents a 50% reduction in sediment loading relative to 2003 levels. The aggregated sediment discharge from all storm water outfalls into Morro Bay, or any tributary that has the potential to discharge sediment to Morro Bay, shall not exceed the allocation.~~ **Requirements~~Provisions~~ for Implementing the TMDL** Effective immediately, ~~T~~the County of San Luis Obispo shall implement practices that will assure their allocation is achieved, including identifying and implementing specific road sediment control measures. ~~Within one year of adoption of this Order~~T~~, t~~he County of San Luis Obispo (hereafter referred to in this TMDL section as "the MS4") shall ~~develop, submit, and begin implementation of~~implement a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
~~Morro Bay~~ **TMDL for Morro Bay ~~Sediment~~ (including Chorro Creek, Los Osos Creek, and the Morro Bay Estuary)** *Sediment* (C~~c~~ontinued)			7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL.~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner.~~At least one interim target and date must occur during the five-year term of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm water Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~13.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports,

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Municipality Phase II Entities	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 3: Central Coast Regional Water Board			
			TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations The allocations shall be achieved by December 3, 2053.
San Lorenzo River TMDL for San Lorenzo River Sediment (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek) *Sediment* Effective Date: 12/18/2003 BPA: Chapter 4 Resolution No. R3-2002-0063	City of Santa Cruz County of Santa Cruz City of Scotts Valley	San Lorenzo River Carbonera Creek Lompico and Creek Shingle Mill Creeks	**Purpose of Provisions** The purpose of these provisions is to implement the requirements of the San Lorenzo River TMDL for sediment. **TMDL Wasteload and Load Allocations** The County of Santa Cruz, City of Santa Cruz, and City of Scotts Valley are assigned the following wasteload allocations: sediment discharges from public roads to the San Lorenzo River shall be reduced by 27%, sediment discharges from public roads to Lompico Creek shall be reduced by 24%, sediment discharges from public roads to Carbonera Creek shall be reduced by 27%, sediment discharges from public roads to Shingle Mill Creek shall be reduced by 27%. **Requirements Provisions for Implementing the TMDL** Effective immediately, Tthe Phase II entities identified in this TMDL section County of Santa Cruz, City of Santa Cruz, and City of Scotts Valley shall implement practices that will assure their allocation is achieved, including identifying and implementing specific road sediment control measures. By June 30, 2013, tThe The Phase II entities identified in this TMDL section County of Santa Cruz, City of Santa Cruz, and City of Scotts Valley (hereafter referred to in this TMDL section as "the MS4") shall each develop, submit, and begin implementation of implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule.
San Lorenzo River TMDL for San Lorenzo River Sediment (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek) *Sediment*			

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	MunicipalityPhase II Entities	Impaired Water Body	Deliverables/Actions RequiredWaste Load Allocations
Region 3: Central Coast Regional Water Board			
(Ceontinued) **TMDL for San Lorenzo River (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek)**			For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL.A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. 8.9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner.At least one interim target and date must occur during the five-year term of this Order. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. 9.10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm water Program Effectiveness Assessment Guide. 10.11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 11.12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	MunicipalityPhase II Entities	Impaired Water Body	Deliverables/Actions RequiredWaste Load Allocations
Region 3: Central Coast Regional Water Board			
Sediment (Continued) **San Lorenzo River TMDL for Sediment (Including Carbonera Creek, Lompico Creek, and Shingle Mill Creek)** continued			schedule. 12.13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. 13.14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations The allocations shall be achieved by December 18, 2028.

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
~~Pajaro River~~ TMDL and Implementation Plan for Pajaro River ~~Sediment~~ including Llagas Creek, Rider Creek, and San Benito River *Sediment* Effective Date: 11/27/2006 BPA: Chapter 4 Resolution No. R3-2005-0132	City of Gilroy City of Hollister City of Morgan Hill Santa Cruz County Fairgrounds City of Watsonville	Tres Pinos San Benito River Llagas Creek Uvas Creek Upper Pajaro River Corralitos Creek (including Rider Creek), Mouth of Pajaro River	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the San Lorenzo River TMDL for sediment.~~ ~~**TMDL Wasteload and Load Allocations**~~ ~~The City of Morgan Hill, City of Gilroy, City of Hollister, and the City of Watsonville shall not discharge sediment to the following water bodies in excess of the values shown:~~ ~~Major Subwatershed~~ / ~~Metric tons per year~~ ~~Tres Pinos~~ — ~~1~~ ~~San Benito~~ — ~~100~~ ~~Llagas~~ — ~~787~~ ~~Uvas~~ — ~~139~~ ~~Upper Pajaro~~ — ~~161~~ ~~Corralitos (including Rider Creek)~~ — ~~284~~ ~~Mouth of Pajaro River~~ — ~~191~~ ~~The allocations represent a 90% reduction in sediment loading to each water body from urban roads.~~ **Requirements~~Provisions~~ for Implementing the TMDL** The Phase II entities identified in this TMDL section~~Cities of Morgan Hill, Gilroy, Hollister, and Watsonville~~ shall implement the practices specified in this Order, tailored to focus on reduction of sediment discharges to the affected waterbodies, to ~~that will assure~~ ensure ~~their allocation is achieved.~~achievement of the wasteload allocations. All wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference, and ~~The allocations~~ shall be achieved by November 27, 2051.

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**~~Municipality~~Phase II Entities**	**Impaired Water Body**	**Deliverables/Actions Required~~/Waste Load Allocations~~**
Region 3: Central Coast Regional Water Board			
~~San Luis Obispo Creek Total Maximum Daily Load~~TMDL and Implementation Plan for San Luis Obispo Creek *Pathogens* Effective Date: 7/25/2005 BPA: Chapter 4 Resolution No.R3-2004-0142	Cal Poly State University City of San Luis Obispo County of San Luis Obispo	San Luis Obispo Creek Stenner Creek Brizziolari Creek	**~~Purpose of Provisions~~** ~~The purpose of these provisions is to implement the requirements of the San Luis Obispo Creek TMDL for Pathogens.~~ **~~TMDL Wasteload Allocations~~** ~~The City of San Luis Obispo, the County of San Luis Obispo, and Cal Poly State University-San Luis Obispo, are assigned a concentration based wasteload allocation for fecal coliform equal to 200 MPN/100mL, measured as a log mean of five samples taken in a 30-day period from impaired water body receiving waters, nor shall more than 10% of the total samples during any 30-day period exceed 400 MPN per 100mL in receiving waters; storm water discharge cannot cause or contribute to exceedance of the allocations.~~ ~~The City of San Luis Obispo is assigned these allocations in the following water bodies: San Luis Obispo Creek, Stenner Creek.~~ ~~The County of San Luis Obispo is assigned these allocations in the following water bodies: San Luis Obispo Creek.~~ ~~Cal Poly State University-San Luis Obispo is assigned these allocations in the following water bodies: Stenner Creek, Brizziola~~ **Requirements~~Provisions~~ for Implementing the TMDL** The Phase II entities identified in this TMDL section~~City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University~~ are required to implement best management practices specifically targeting fecal coliform loading. Required actions include development and implementation of: public education regarding fecal coliform sources and associated health risk, enforceable means of addressing pet waste and wild animals that are attracted to storm water infrastructure, and elimination of illicit discharges. Effective immediately,~~Within one year of adoption of this Order,~~ the Phase II entities identified in this TMDL section~~City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University~~ (hereafter referred to in this TMDL section as "the MS4") shall each ~~develop, submit, and begin implementation of~~implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule.

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Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
~~San Luis Obispo Creek Total Maximum Daily Load~~TMDL and Implementation Plan for San Luis Obispo Creek *Pathogens* (C~~c~~ontinued)			2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. ~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. Where TMDL compliance schedules have passed, but Wasteload Allocations have not been achieved by [Hard Date, date of adoption], the MS4 shall consult with the Regional Water Board to establish dates to meet new interim targets and to achieve wasteload allocations. At least one interim target and date must occur during the five-year term of this Order. The MS4 shall

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
			achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm ~~w~~Water Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL Schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~13.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations were required to be achieved by July 25, 2015, and are effective immediately. ~~All allocations shall be achieved no later than July 25, 2015.~~
~~San Luis Obispo Creek~~ **TMDL and Implementation Plan for San Luis Obispo Creek** *Nitrate-Nitrogen* **TMDL and Implementation Plan for San Luis Obispo Creek** *Nitrate-Nitrogen* (Continued) Effective Date: 8/04/2006 BPA: Chapter 4 Resolution No. R3-2005-0106	Cal Poly State University City of San Luis Obispo County of San Luis Obispo	San Luis Obispo Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the San Luis Obispo Creek TMDL for Nitrate.~~ ~~**TMDL Wasteload Allocations**~~ ~~Urban storm water from the City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University shall not cause an increase in receiving water nitrate concentration greater than the increase in nitrate concentration resulting from their discharge in 2006 (when the TMDL became effective). In 2006, the nitrate concentration of storm water discharge was 0.3 mg/L N.~~ ~~The City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University were achieving their allocations at the time the TMDL became effective; these municipalities shall implement measures to assure continued compliance with their allocations.~~ **Requirements~~Provisions~~ for Implementing the TMDL** Effective immediately, ~~T~~the Phase II entities identified in this TMDL section ~~City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University~~ shall implement best management practices that specifically address the reduction or elimination of nutrient loading.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
			The Phase II entities identified in this TMDL section ~~City of San Luis Obispo, County of San Luis Obispo, and Cal Poly State University~~ shall submit reports required by this~~eir storm water permits~~Order and in those reports outline best management practices implemented to assure ongoing compliance with their allocation. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the target date to achieve the TMDL is during or before year 2012. The allocations are therefore effective immediately.
TMDL for ~~Fecal Coliform in~~ Corralitos and Salsipuedes Creeks *Fecal Coliform* Effective Date: ~~OAL approval anticipated early 2011~~9/8/2011 BPA: Chapter 4 Resolution No. R3-2009-0009	County of Santa Cruz Santa Cruz County Fairgrounds City of Watsonville	Corralitos Creek Salsipuedes Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the TMDL for Fecal Coliform in Corralitos/Salsipuedes Creeks~~ ~~**TMDL Wasteload Allocations**~~ ~~The County of Santa Cruz and the City of Watsonville are assigned the following concentration based wasteload allocation: Fecal coliform concentration, based on a minimum of not less than five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL.~~ ~~These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.~~ ~~The County of Santa Cruz and the City of Watsonville are assigned allocations in the following water bodies: Corralitos Creek and Salsipuedes Creek.~~ **Requirements~~Provisions~~ for Implementing the TMDL** Effective immediately, ~~Within one year of adoption of this order,~~ the County of Santa Cruz and the City of Watsonville (hereafter referred to in this TMDL section as MS4) shall each ~~develop, submit, and begin implementation of~~implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. By [Hard Date: one year from adoption], the Santa Cruz County Fairgrounds (hereafter referred to in this TMDL section as "the MS4") shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their waste load allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for ~~Fecal Coliform in~~ Corralitos and Salsipuedes Creeks *Fecal Coliform* (C~~c~~ontinued)			3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. ~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner. ~~At least one interim target and date must occur during the five-year term of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	MunicipalityPhase II Entities	Impaired Water Body	Deliverables/Actions RequiredWaste Load Allocations
Region 3: Central Coast Regional Water Board			
			9.10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm wWater Program Effectiveness Assessment Guide. 10.11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 11.12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 12.13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. 13.14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations All allocations shall be achieved no later than September 8, 2024.
TMDL for Fecal Coliform in the Lower Salinas River Watershed *Fecal Coliform* Effective Date: OAL approval anticipated in 201112/20/2011 BPA: Chapter 4 Resolution No. R3-2010-0017	County of Monterey	Lower Salinas River Old Salinas River Estuary Tembladero Slough Salinas Reclamation Canal Alisal Creek Gabilan Creek Salinas River Lagoon (North)	**Purpose of Provisions** The purpose of these provisions is to implement the requirements of the TMDL for fecal coliform in the Lower Salinas River Watershed. **TMDL Wasteload Allocations** The County of Monterey is assigned the following concentration based wasteload allocation for fecal coliform: Fecal coliform concentration, based on a minimum of five samples for any 30-day period, shall not exceed a log mean of 200 MPN per 100mL, nor shall more than ten percent of total samples collected during any 30-day period exceed 400 MPN per 100mL. These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocation as measured in receiving water. **RequirementsProvisions for Implementing the TMDL** Effectively immediately, Within one year of adoption of this Order, the County of Monterey (hereafter referred to in this TMDL section as "the MS4") shall develop, submit, and begin implementation ofimplement a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for ~~Fecal Coliform in~~ the Lower Salinas River Watershed *Fecal Coliform* (C~~e~~ontinued)		Santa Rita Creek ~~Quail Creek~~ ~~Towne Creek~~	sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. ~~3.~~4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. ~~4.~~5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. ~~5.~~6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. ~~6.~~7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL.~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~7.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner.~~At least one interim target and date must occur during the five-year term~~

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
			~~of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~8.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm ~~w~~Water Program Effectiveness Assessment Guide. ~~9.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~10.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~11.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~12.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations~~All allocations~~ shall be achieved no later than December 20, 2024.
TMDL for the ~~Pathogens in San in~~ San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek *Pathogens* Effective Date: ~~OAL approval pending; anticipated March 2011~~6/8/2011 BPA: Chapter 4 Resolution No. R3-2009-0023	City of Santa Cruz County of Santa Cruz City of Scotts Valley	San Lorenzo River Estuary San Lorenzo River Branciforte Creek Camp Evers Creek Carbonera Creek Lompico Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the TMDL for Pathogens in San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek.~~ ~~**TMDL Wasteload Allocations**~~ ~~The City of Santa Cruz, County of Santa Cruz and the City of Scotts Valley are assigned the following concentration based wasteload allocation for fecal coliform: based on a minimum of not less than five samples for any 30-day period, fecal coliform shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL.~~ ~~These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.~~ ~~The City of Santa Cruz is assigned allocations in San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, and Carbonera Creek.~~ ~~The County of Santa Cruz is assigned allocations in San Lorenzo River, Branciforte Creek, Lompico~~

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for the ~~Pathogens in San in~~ San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek *Pathogens* (C~~c~~ontinued)			~~Creek, and Carbonera Creek,~~ ~~The City of Scotts Valley is assigned allocations in Camp Evers Creek and Carbonera Creek.~~ **~~Provision~~Requirements for Implementing the TMDL** Effective immediately, ~~By June 30, 2013 ,~~ the Phase II entities identified in this TMDL section~~County of Santa Cruz and the Cities of Santa Cruz and Scotts Valley~~ (hereafter referred to in this TMDL section as "the MS4") shall each ~~develop, submit, and begin implementation of~~implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL.~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for the ~~Pathogens in San in~~ San Lorenzo River Estuary, San Lorenzo River, Branciforte Creek, Camp Evers Creek, Carbonera Creek, and Lompico Creek *Pathogens* (C~~c~~ontinued)			implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner.~~At least one interim target and date must occur during the five-year term of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm ~~w~~Water Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~13.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations ~~All allocations~~ shall be achieved no later than June 8, 2024.
TMDL for ~~Pathogens in~~ Soquel Lagoon, Soquel Creek, and Noble Gulch *Pathogens* Effective Date: 9/15/2010	City of Capitola County of Santa Cruz	Soquel Lagoon Soquel Creek	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the TMDL for Pathogens in Soquel Lagoon, Soquel Creek, and Noble Gulch.~~ ~~**TMDL Wasteload Allocations**~~ ~~The City of Capitola and the County of Santa Cruz are assigned the following concentration based wasteload allocation for fecal coliform: based on a minimum of not less than five samples for any 30-~~

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
BPA: Chapter 4 Resolution No. R3-2009-0024 **TMDL for ~~Pathogens in~~ Soquel Lagoon, Soquel Creek, and Noble Gulch** *Pathogens* (C~~c~~ontinued)		Noble Gulch	~~day period, fecal coliform shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL.~~ ~~These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.~~ ~~The City of Capitola is assigned allocations in Soquel Lagoon.~~ ~~The County of Santa Cruz is assigned allocations in Soquel Creek and Noble Gulch.~~ ~~Provision~~Requirements for Implementing the TMDL Effective immediately, ~~By June 30, 2013,~~ the Phase II entities identified in this TMDL section~~City of Capitola and the County of Santa Cruz~~ (hereafter referred to in this TMDL section as "the MS4") shall each ~~develop, submit, and begin implementation of~~ implement a Wasteload Allocation Attainment Program that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL Schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. ~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling,~~

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
			~~published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. ~~7.~~8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner.~~At least one interim target and date must occur during the five-year term of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm ~~w~~Water Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~13.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations~~All allocations~~ shall be achieved by September 15, 2023.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for ~~Pathogens in~~ Aptos Creek, Valencia Creek, and Trout Gulch *Pathogens* Effective Date: 10/29/2010 BPA: Chapter 4 Resolution No. R3-2009-0025 **TMDL for Aptos Creek, Valencia Creek, and Trout Gulch** *Pathogens* (Continued)	County of Santa Cruz	Aptos Creek Valencia Creek Trout Gulch	~~**Purpose of Provisions**~~ ~~The purpose of these provisions is to implement the requirements of the TMDL for Pathogens in Aptos Creek, Valencia Creek, and Trout Gulch.~~ ~~**TMDL Wasteload Allocations**~~ ~~The County of Santa Cruz is assigned the following concentration based wasteload allocation for fecal coliform: based on a minimum of not less than five samples for any 30-day period, fecal coliform shall not exceed a log mean of 200 MPN per 100 mL, nor shall more than 10 percent of samples collected during any 30-day period exceed 400 MPN per 100 mL.~~ ~~These wasteload allocations are receiving water allocations; storm water discharge cannot cause or contribute to exceedance of the allocations as measured in receiving water.~~ ~~The County of Santa Cruz is assigned allocations in Aptos Creek, Valencia Creek, and Trout Gulch.~~ ~~**Provision**~~**Requirements for Implementing the TMDL** Effective immediately, ~~By June 30, 2013 ,~~ the County of Santa Cruz (hereafter referred to in this TMDL section as "the MS4") shall ~~develop, submit, and begin implementation of~~implement a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocation. The Wasteload Allocation Attainment Program shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates,

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for ~~Pathogens in~~ Aptos Creek, Valencia Creek, and Trout Gulch *Pathogens* (C~~c~~ontinued)			performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL.~~A quantifiable numeric analysis demonstrating the BMPs selected for implementation will likely achieve, based on modeling, published BMP pollutant removal performance estimates, best professional judgment, and/or other available tools, the MS4's wasteload allocation according to the schedule identified in the TMDL.~~ This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. ~~7.~~8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocation. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. ~~8.~~9. If the approved TMDL does not explicitly include interim targets, the MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner.~~At least one interim target and date must occur during the five-year term of this Order.~~ The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not achieve its interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. ~~9.~~10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm ~~w~~Water Program Effectiveness Assessment Guide. ~~10.~~11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. ~~11.~~12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. ~~12.~~13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program. ~~13.~~14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
			The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations~~All allocations~~ shall be achieved October 29, 2023.
TMDLs for the Santa Maria River Watershed *Fecal Indicator Bacteria* Effective Date: 2/21/2013 BPA: Chapter 4 Resolution No. R3-2012-0055	City of Guadalupe County of San Luis Obispo County of Santa Barbara City of Santa Maria	Water Bodies in the Santa Maria River Watershed, including: Blosser Channel Bradley Channel Main Street Canal Nipomo Creek Orcutt Creek Santa Maria River Estuary Santa Maria River	**Requirements for Implementing the TMDL** By [Hard Date: four months from adoption], the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as "the MS4") shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program, or an integrated plan, that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs or integrated plans shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any
TMDLs for the Santa Maria River Watershed *Fecal Indicator Bacteria* (Continued)			

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDLs for the Santa Maria River Watershed *Fecal Indicator Bacteria* (Continued)			interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim targets and wasteload allocations. 9. The MS4 shall establish interim targets (and dates when stormwater discharge conditions will be evaluated) that are equally spaced in time over the TMDL compliance schedule and represent measurable, continually decreasing MS4 discharge concentrations or other appropriate interim measures of pollution reduction and progress towards the wasteload allocation. At least one interim target and date must occur during the first five-year period or by December 31, 2021, whichever is sooner. The MS4 shall achieve its interim targets by the date it specifies in the Wasteload Allocation Attainment Program. If the MS4 does not specify interim targets as described above in its Wasteload Allocation Attainment Program, the interim targets identified in the TMDL apply. If the MS4 does not achieve any interim target by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim target. 10. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide. 11. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation. 12. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 13. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 14. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan. 15. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation items identified above. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations shall be achieved February 21, 2028.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDLs for the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake *Nitrogen Compounds and Orthophosphate* Effective Date: 5/22/2014 BPA: Chapter 4 Resolution No. R3-2013-0013	City of Guadalupe County of San Luis Obispo County of Santa Barbara City of Santa Maria	Water Bodies in the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake, including: Blosser Channel Bradley Channel Greene Valley Creek Main Street Canal North Main Street Channel Orcutt Creek Nipomo Creek Santa Maria River Santa Maria River Estuary	**Requirements for Implementing the TMDL** By [Hard Date: four months from adoption], the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as "the MS4") shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program, or an integrated plan, that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs or integrated plans shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim and final wasteload allocations. 9. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for the Lower Santa Maria River Watershed and Tributaries to Oso Flaco Lake *Nitrogen Compounds and Orthophosphate* (Continued)			Storm Water Program Effectiveness Assessment Guide. 10. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation. 11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan. 14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation items identified above. The MS4 shall achieve its interim wasteload allocations as specified in the Fact Sheet. If the MS4 does not achieve any interim wasteload allocation by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim or final wasteload allocations. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations shall be achieved by May 22, 2044.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**~~Municipality~~Phase II Entities**	**Impaired Water Body**	**Deliverables/Actions Required~~/Waste Load Allocations~~**
Region 3: Central Coast Regional Water Board			
TMDL for the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed *Nitrogen Compounds and Orthophosphate* Effective Date: 6/7/2014 BPA: Chapter 4 Resolution No. R3-2013-0008	County of Monterey	Lower Salinas River Santa Rita Creek Reclamation Canal Gabilan Creek Natividad Creek Alisal Creek	**Requirements for Implementing the TMDL** By [Hard Date: Within four months from adoption], the County of Monterey (hereafter referred to in this TMDL section as "the MS4") shall develop, submit, and begin implementation of a Wasteload Allocation Attainment Program that identifies the actions it will take to attain its wasteload allocations. The Wasteload Allocation Attainment Program shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors. 6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis will most likely incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim and final wasteload allocations. 9. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed *Nitrogen Compounds and Orthophosphate* (Continued)			10. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation. 11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan. 14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment. The MS4 shall achieve its interim wasteload allocations as specified in the Fact Sheet. If the MS4 does not achieve any interim wasteload allocation by the date specified, the MS4 shall develop and implement more effective BMPs that it can quantitatively demonstrate will achieve the next interim or final wasteload allocations. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations shall be achieved by May 7, 2044.
TMDL for the Santa Maria River Watershed *Toxicity and Pesticides* Effective Date: 10/29/2014 BPA: Chapter 4 Resolution No. R3-2014-0009	City of Guadalupe City of Santa Maria County of Santa Barbara	Blosser Channel Bradley Channel Greene Valley Creek Main Street Canal, Orcutt Creek Santa Maria River	**Requirements for Implementing the TMDL** By [Hard Date: four months from adoption], the Phase II entities identified in this TMDL section (hereafter referred to in this TMDL section as "the MS4") shall each develop, submit, and begin implementation of a Wasteload Allocation Attainment Program, or an integrated plan, that identifies the actions they will take to attain their wasteload allocations. The Wasteload Allocation Attainment Programs or integrated plans shall include: 1. A detailed description of the strategy the MS4 will use to guide BMP selection, assessment, and implementation, to ensure that BMPs implemented will be effective at abating pollutant sources, reducing pollutant discharges, and achieving wasteload allocations according to the TMDL schedule. 2. Identification of sources of the impairment within the MS4's jurisdiction, including specific information on various source locations and their magnitude within the jurisdiction. 3. Prioritization of sources within the MS4's jurisdiction, based on suspected contribution to the impairment, ability to control the source, and other pertinent factors. 4. Identification of BMPs that will address the sources of impairing pollutants and reduce the discharge of impairing pollutants. 5. Prioritization of BMPs, based on suspected effectiveness at abating sources and reducing impairing pollutant discharges, as well as other pertinent factors.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	~~Municipality~~Phase II Entities	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 3: Central Coast Regional Water Board			
TMDL for the Santa Maria River Watershed *Toxicity and Pesticides* (Continued)			6. Identification of BMPs the MS4 will implement, including a detailed implementation schedule. For each BMP, identify milestones the MS4 will use for tracking implementation, measurable goals the MS4 will use to assess implementation efforts, and measures and targets the MS4 will use to assess effectiveness. MS4s shall include expected BMP implementation for future implementation years, with the understanding that future BMP implementation plans may change as new information is obtained. 7. A quantifiable numeric analysis that uses published BMP pollutant removal estimates, performance estimates, modeling, best professional judgment, and/or other available tools to demonstrate that the BMP selected for implementation will likely achieve the MS4's wasteload allocation by the schedule identified in the TMDL. This analysis may incorporate modeling efforts. The MS4 shall conduct repeat numeric analyses as the BMP implementation plans evolve and information on BMP effectiveness is generated. Once the MS4 has water quality data from its monitoring program, the MS4 shall incorporate water quality data into the numeric analyses to validate BMP implementation plans. 8. A detailed description, including a schedule, of a monitoring program the MS4 will implement to assess discharge and receiving water quality, BMP effectiveness, and progress towards any interim targets and ultimate attainment of the MS4s' wasteload allocations. The monitoring program shall be designed to validate BMP implementation efforts and quantitatively demonstrate attainment of interim and final wasteload allocations. The Central Coast Water Board may approve participation in statewide or regional monitoring programs as meeting all, or a portion of monitoring requirements. 9. A detailed description of how the MS4 will assess BMP and program effectiveness. The description shall incorporate the assessment methods described in the CASQA Municipal Storm Water Program Effectiveness Assessment Guide. 10. A detailed description of how the MS4 proposes to assess its compliance with interim targets and the final wasteload allocation. 11. A detailed description of how the MS4 will modify the program to improve upon BMPs determined to be ineffective during the effectiveness assessment. 12. A detailed description of information the MS4 will include in annual reports to demonstrate adequate progress towards attainment of wasteload allocations according to the TMDL schedule. 13. A detailed description of how the MS4 will collaborate with other agencies, stakeholders, and the public to develop and implement the Wasteload Allocation Attainment Program or integrated plan. 14. Any other items identified by Integrated Report fact sheets, TMDL Project Reports, TMDL Resolutions, or that are currently being implemented by the MS4 to control its contribution to the impairment, including public education and participation items identified above. Waste load allocations will be achieved through implementation of management practices and strategies to reduce pesticide loading, and wasteload allocation attainment will be demonstrated

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	MunicipalityPhase II Entities	Impaired Water Body	Deliverables/Actions RequiredWaste Load Allocations
Region 3: Central Coast Regional Water Board			
TMDL for the Santa Maria River Watershed *Toxicity and Pesticides* (Continued)			through water quality monitoring. Implementation can be conducted by MS4s specifically and/or through statewide programs addressing urban pesticide water pollution. The Wasteload Allocation Attainment Program may include participation in statewide efforts, by organizations such as California Stormwater Quality Association (CASQA), that coordinate with Department of Pesticide Regulation and other organizations taking actions to protect water quality from the use of pesticides in the urban environment. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The target date to achieve the TMDLs for pyrethroids is November 1, 2029. This estimate is based on the widespread availability of pyrethroids, including consumer usage, and current limited regulatory oversight. The target date to achieve the TMDLs for organochlorine pesticides (DDT, DDD, DDE, chlordane, eldrin, toxaphene, dieldrin) is November 1, 2044.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	**Phase II Entities** ~~**Municipality**~~	**Impaired Water Body**	**Deliverables/Actions Required** ~~**/Waste Load Allocations**~~
Region 4: Los Angeles Regional Water Board			
TMDL for Avalon Beach ~~**Bacteria TMDL**~~ *Bacteria* Effective Date: April 5, 2012 ~~Cease and Disist Order No.~~ BPA: N/A (Issued through R4-2012-0077)	City of Avalon	Avalon Beach	**Requirements for Implementing the TMDL** City of Avalon's compliance with the MS4-specific provisions of Cease and Desist Order No. R4-2012-0077 and the applicable implementation requirements and timelines therein, In addition to compliance with all requirements of this Order, shall constitute compliance with the requirements of this Attachment.
TMDL for Santa Monica Bay Beaches *Bacteria* Effective Date: July 15, 2003 BPA: Chapter 7-4 Resolution Nos.: 2002-04 (dry weather) 2002-022 (wet weather) R12-007 revision	Department of Parks and Recreation (Point Dume State Beach, Robert H Meyer Memorial State Beach)	Santa Monica Bay	**Requirements for Implementing the TMDL:** The Department of Parks and Recreation (specifically, Point Dume State Beach and Robert H Meyer Memorial State Beach) must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Santa Monica Bay Beaches *Bacteria* (Continued)			discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the target dates to achieve the final wasteload allocations is July 15, 2006 (to achieve dry weather wasteload allocations during the summer period from April 1 – October 31); November 1, 2009 (to achieve dry weather wasteload allocations during the winter period from November 1 – March 31); and July 15, 2021 (to achieve the wet weather wasteload allocations). The dry weather allocations are therefore effective immediately.
~~**Upper Santa Clara River Chloride TMDL**~~ ~~Effective Date: May 4, 2005~~ ~~BPA Chapter 7-6~~ ~~Resolution Nos.: R04-004, R06-016 revision, and R08-012 revision~~			
TMDL for Los Angeles River *Nitrogen and Related Effects* ~~**TMDL**~~ Effective Date: March 23, 2004 BPA Chapter 7-8 Resolution Nos.:	California State University Los Angeles California State University Northridge	Los Angeles River	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
R03-009 (amended by R03-016, R05-014, R07-005, & R12-010) **TMDL for Los Angeles River** *Nitrogen and Related Effects* (Continued)~~and R03-016 revision~~			Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations are to be achieved by March 23, 2004. The allocations are therefore effective immediately.
~~**Santa Clara River Nitrogen Compounds TMDL**~~ ~~Effective Date: March 23, 2004~~ ~~BPA Chapter 7-9~~			

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities Municipality	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 4: Los Angeles Regional Water Board			
Resolution No.: R03-11			
Malibu Creek Bacteria TMDL Effective Date: January 24, 2006 BPA Chapter 7-10 Resolution Nos.: 2004-019R R12-009-revision			
TMDL for Los Angeles Harbor Bacteria TMDL (Inner Cabrillo Beach and Main Shiop Channel) *Bacteria* Effective Date: March 10, 2005 BPA Chapter 7-11 Resolution No.: 2004-011; R12-007 (revised) **TMDL for Los Angeles Harbor**	Federal Correctional Institution (FCI), Terminal Island California State University Dominguez Hills	Dominguez Channel Watershed Management Area	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
(Inner Cabrillo Beach and Main Ship Channel) *Bacteria* (Continued)			implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations are to be achieved by March 10, 2010. The allocations are therefore effective immediately.
TMDL for Calleguas Creek Watershed *Toxicity* ~~**TMDL**~~ Effective Date: March 24, 2006 BPA Chapter 7-17 Resolution No.: 2005-010	Naval Base Ventura County (includes Port Hueneme & Point Mugu) Department of Parks and Recreation (Point Mugu State Park) California State University, Channel Islands	Calleguas Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Calleguas Creek Watershed *Toxicity* (Continued)			with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations are to be achieved by March 24, 2008. The allocations are therefore effective immediately.
TMDL for Calleguas Creek *Organochlorine Pesticides, Polychlorinated Biphenyls, and Siltation* Effective Date: March 24, 2006 BPA Chapter 7-16 Resolution No.: 2005-009	Naval Base Ventura County (includes Port Hueneme & Point Mugu) Department of Parks and Recreation (Point Mugu State Park) California State University, Channel Islands	Calleguas Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Calleguas Creek *Organochlorine Pesticides, Polychlorinated Biphenyls, and Siltation* (Continued)			the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demons4trating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The final wasteload allocations shall be achieved by March 24, 2026.
TMDL for Calleguas Creek *Metals and Selenium* ~~**TMDL**~~ Effective Date: ~~3/~~March 26~~/~~, 2007 BPA Chapter 7-19 Resolution No.: 2006-012	Naval Base Ventura County (includes Port Hueneme & Point Mugu) Department of Parks and Recreation (Point Mugu State Park) California State University, Channel Islands	Calleguas Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Regional Water Board Executive Officer upon finalization. or alternatively,

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Calleguas Creek *Metals and Selenium* (Continued)			2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The final wasteload allocations shall be achieved by March 26, 2022.
TMDL for Ballona Creek *Bacteria* ~~TMDL~~ Effective Date: April 27, 2007 BPA Chapter 7-21 Resolution Nos.: 2006-11, R12-008 revision **TMDL for Ballona Creek**	University of California Los Angeles Veteran Affairs, Greater Los Angeles Healthcare System	Ballona Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
Bacteria (Continued)			or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations during dry weather are to be achieved by April 27, 2013; and that the final wasteload allocations during wet weather shall be achieved by July 15, 2021. The final wasteload allocations during dry weather are therefore effective immediately.
TMDL for Santa Monica Bay *Marine Debris* ~~**TMDL**~~ Effective Date: March 20, 2012 BPA Chapter 7-34 Resolution No.: 2010-010	Department of Parks and Recreation (Point Dume State Beach, Robert H Meyer Memorial State Beach)	Santa Monica Bay Watershed Management Area	**Requirements for Implementing the TMDL:** By [Hard Date: six months from adoption], the Department of Parks and Recreation (at Point Dume State Beach and Robert H. Meyer Memorial State Beach) must submit for Los Angeles Regional Water Board Executive Officer approval, a Minimum Frequency of Assessment and Collection Program (MFAC)/BMP Program that meets the following criteria: a) The MFAC/BMP Program includes an initial minimum frequency of trash assessment and collection and suite of structural and/or nonstructural BMPs. The MFAC/BMP Program shall include collection and disposal of all trash found in the source areas and along the shoreline. Responsible jurisdictions shall implement an initial suite of BMPs based on current trash

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Santa Monica Bay *Marine Debris*			management practices in land areas that are found to be sources of trash to waterbodies within the Santa Monica Bay Watershed Management Area and to Santa Monica Bay. Beaches and Harbors along Santa Monica Bay For beaches and harbors along Santa Monica Bay, the initial minimum frequency shall be set as follows: 1. The trash source areas of beaches and harbors shall be cleaned on a daily basis year round. 2. Trash on Santa Monica Bay shorelines shall be collected daily. An assessment shall immediately follow at the frequency specified in the Trash Monitoring and Reporting Plan (TMRP). 3. The assessment performed immediately after the collection events shall focus on the shorelines or interface along Santa Monica Bay. 4. The protocol for conducting the assessment immediately after the collection event shall include methods and frequencies of assessment, specific locations on the beaches and harbors, in the TMRP. 5. Responsible jurisdictions for beaches and harbors shall conduct routine trash generation rate evaluation on the nonpoint source areas at selected beaches or harbors under their management. Protocols, as specified in the TMRP, for this evaluation include: i) The evaluation shall be performed in the late afternoon before dusk. Data collected may represent the daily trash quantity littered or deposited on the nonpoint source areas. ii) Methods, locations and frequencies of evaluation on the beaches and harbors shall be included in the TMRP. 6. Water in harbors shall be inspected and all trash found on the water shall be removed at a frequency and during critical conditions as defined in the approved TMRP. 7. Compliance for jurisdictions responsible for nonpoint source trash at areas where daily cleanup is implemented, is determined by the following conditions: i) The assessment conducted immediately after cleanup shall demonstrate that all trash on the shoreline or harbor is 100% removed and no trash remains. ii) Responsible jurisdictions for beaches and harbors where daily cleanup is performed, shall demonstrate that the trash generation rate of the source areas does not show an increasing trend and does not exceed the benchmark of 310 pounds (lbs) per mile of beach/harbor per day, or 113,150 lbs/mile/year. 8. Should trash amounts collected during evaluation at the source areas exceed 113,150 lbs/mile/year, or not indicate a decreasing trend, the responsible jurisdictions shall

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
(C~~c~~ontinued) **TMDL for Santa Monica Bay** *Marine Debris*			immediately initiate additional BMPs as specified in the TMRP. 9. By [Hard Date: six months from adoption], responsible agencies and jurisdictions shall also develop a Trash Monitoring and Reporting Plan (TMRP) for Los Angeles Regional Water Board Executive Officer approval that describes the methodologies that will be used to assess and monitor trash in their responsible areas within the Santa Monica Bay Watershed Management Area or along Santa Monica Bay. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that all wasteload allocations shall be achieved by March 20, 2017.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities Municipality	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 4: Los Angeles Regional Water Board			
(Continued)			
TMDL for Los Angeles and Long Beach Harbors and *Toxics and Metals* TMDL Effective Date: March 23, 2012 BPA Chapter 7-40 Resolution No.:2011-008	Federal Correction Institution (FCI), Terminal Island Community Corrections Management (CCM), Long Beach California State University Dominguez Hills	Dominguez Channel Watershed	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Los Angeles and Long Beach Harbors *Toxics and Metals* (Continued)			for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The final wasteload allocations shall be achieved by March 23, 2032.
TMDL for Los Angeles River *Bacteria* ~~**TMDL**~~ Effective Date: March 23, 2012 BPA Chapter 7-39 Resolution No.: R10-007	California State University Los Angeles California State University Northridge	Los Angeles River	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Los Angeles River *Bacteria* (Continued)			Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations during wet weather shall be achieved by March 23, 2037. However, the final wasteload allocations during dry weather vary by reach, and are to be achieved from March 23, 2022 to September 23, 2030, according to the following table. Waterbody Segment — Achieve Final dry weather WLA by: Segment B (upper and middle Reach 2) — March 23, 2022 Segment B Tributaries (Rio Hondo & Arroyo Seco) — September 23, 2023 Segment A (lower Reach 2 and Reach 1) — March 23, 2024 Segment A Tributaries (Compton Creek) — September 23, 2025 Segment E (Reach 6) — March 23, 2025 Segment E Tributaries (Dry Canyon, McCoy and Bell Creeks, and Aliso Canyon Wash) — March 23, 2029 Segment C (lower Reach 4 and Reach 3) — September 23, 2030 Segment C Tributaries (Tujunga Wash, Burbank Western Channel and Verdugo Wash) — September 23, 2030 Segment D (Reach 5 and upper Reach 4) — September 23, 2030 Segment D Tributaries (Bull Creek) — September 23, 2030
~~**Santa Clara River Esturay and Reaches 3, 5, 6 and 7 Bacteria**~~ ~~Effective Date:3/21/2012~~ ~~BPA Chapter 7-36~~ ~~Resolution No. R10-006~~			

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	**Phase II Entities** ~~**Municipality**~~	**Impaired Water Body**	**Deliverables/Actions Required** ~~**/Waste Load Allocations**~~
Region 4: Los Angeles Regional Water Board			
~~**Santa Clara Reach 3 Chloride TMDL**~~ ~~Effective Date :~~ ~~June 18, 2003~~ ~~Established by USEPA~~			
~~**Malibu Creek Nutrients TMDL**~~ ~~Effective Date :~~ ~~March 21, 2003~~ ~~Established by USEPA~~			
~~**Ballona Creek Wetlands TMDL for** *Sediment and Invasive Exotic Vegetation* **TMDL**~~ ~~Effective Date :~~ ~~March 26, 2012~~ ~~Established by USEPA~~			
~~**Santa Monica Bay TMDL for***DDTs and PCBs*~~ ~~Effective Date :~~ ~~March 26, 2012~~ ~~Established by USEPA~~			
TMDL for Los Angeles River and Tributaries *Metals* ~~**TMDL**~~ Effective Date: November 3, 2011 BPA: Chapter 7-13 Resolution No.: R07-014; R10-	California State University Los Angeles California State University Northridge	Los Angeles River	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
003 (revised); R15-004 (revised) **TMDL for Los Angeles River and Tributaries** *Metals* (Continued)			with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the wasteload allocations during final dry weather shall be achieved by January 11, 2024, and the final wasteload allocations during wet weather shall be achieved by January 11, 2028.
TMDL for Ballona Creek *Metals* ~~TMDL~~ Effective Date: October 29, 2008	Veteran Affairs, Greater Los Angeles Healthcare System	Ballona Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL:

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
BPA: Chapter 7-12 Resolution No.: 2007-015; R13-010 (revised) **TMDL for Ballona Creek** *Metals* (Continued)	University of California Los Angeles		1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The final wasteload allocations during wet weather shall be achieved by January 11, 2021. The final wasteload allocations during dry weather are to be achieved by January 11, 2016. The final wasteload allocations for dry weather are therefore effective immediately.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
~~**San Gabriel River and Impaired Tributaries Metals and Selenium TMDL**~~ ~~Effective Date: March 26, 2007~~ ~~USEPA Established~~			
TMDL for Los Cerritos Channel *Metals* ~~**TMDL**~~ Effective Date: March 17, 2010 USEPA Established	California State University Long Beach Long Beach Veterans Affairs Medical Center	Los Cerritos Channel	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Los Cerritos Channel *Metals* (Continued)			Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations during dry weather shall be achieved by September 30, 2023, and the wasteload allocations during wet weather shall be achieved by September 30, 2026.
TMDL for Ballona Creek Estuary *Toxic Pollutants* ~~**TMDL**~~ Effective Date: January 11, 2006 BPA: Chapter 7-14 Resolution No.: 2005-008; R13-010 (revised)	Veteran Affairs, Greater Los Angeles Healthcare System University of California Los Angeles	Ballona Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section must take either of the following actions to meet the requirements of this TMDL: 1. Enter in a cooperative agreement with Phase I MS4 Permittees to participate in a Watershed Management Program (WMP) or Enhanced Watershed Management Program (EWMP) developed and approved pursuant to one of the Los Angeles Region's Phase I MS4 permits. A Permittee shall notify the Regional Water Board of its intent to enter into a cooperative agreement with Phase I MS4 Permittees. Such notification shall be provided by [Hard Date: 6 Months from adoption], and shall identify the Phase I MS4 Permittee(s) and the WMP or EWMP that the Permittee intends to participate in. The cooperative agreement shall be finalized within one year of adoption of these permit amendments, and shall be submitted to the Los Angeles Regional Water Board Executive Officer upon finalization. or alternatively, 2. Propose a program plan for attaining the wasteload allocation(s). The Program Plan must identify the currently used and planned BMPs and any other planned actions to attain the wasteload allocation(s), which may include, but is not limited to, retaining the volume of runoff associated with the 85th percentile, 24-hour storm event on-site. The Program Plan must provide a technical demonstration (using modeling and/or empirical data) that there is a reasonable assurance that by implementing the BMPs and other planned actions in the Program Plan, the Permittee's MS4 discharges will achieve the wasteload allocation(s) by the compliance schedule deadline(s) identified within this specific TMDL section. The Program Plan must also include monitoring of the Permittee's MS4 discharges to track progress toward achieving the wasteload allocation(s) and

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Ballona Creek Estuary *Toxic Pollutants* (Continued)			validate the reasonable assurance demonstration. The Program Plan is subject to approval by the Los Angeles Regional Water Board Executive Officer. The Program Plan must be submitted for Los Angeles Regional Water Board Executive Officer approval by [Hard Date: 12 months from adoption]. Once approved, the Permittees must implement the Program Plan and are responsible for attaining applicable wasteload allocations and demonstrating such attainment with monitoring data. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The wasteload allocations shall be achieved by January 11, 2021.
TMDL for Ballona Creek *Trash* Effective Date: ~~8~~August ~~/~~ 28, ~~/~~2002 BPA: Chapter 7.3 Resolution No.:2001-014 2004-023 (revision), R15-006 (revision)	Veteran Affairs, Greater Los Angeles Healthcare System University of California Los Angeles	Ballona Creek	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section shall implement either 1) Full Capture Systems, 2) partial capture devices and the application of institutional controls, or 3) a scientifically based alternative compliance approach. A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation). A partial capture device does not meet the definition of a Full Capture System; a partial capture device may not trap all particles 5 mm or greater or may not have the minimum design treatment capacity of a one year, one hour, storm event. Thus, a MS4 Permittee must implement institutional controls in combination with the partial capture device to comply with the wasteload allocations. MS4 Permittees employing partial capture devices and institutional controls shall use a mass balance approach based on the trash daily generation rate, assessed annually, to demonstrate compliance. (See Fact Sheet for compliance determination information) An alternative compliance approach to implementing either 1) a Full Capture System or 2) partial capture devices and the application of institutional controls must be sumitted for approval by the Los Angeles Regional Water Board Executive Officer. By [Hard Date: 1 year from adoption], MS4 Permittees seeking approval of an alternative compliance approach, shall include in their submittal any proposed studies of institutional controls and partial capture devices for their particular subwatershed(s) or demonstrate that existing studies are representative and transferable to the implementing area.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 4: Los Angeles Regional Water Board			
TMDL for Ballona Creek *Trash* (Continued)			Permittees shall also provide a schedule for periodic, compliance effectiveness demonstration and evaluation. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLA (0% of baseload discharged) is to be achieved by September 30, 2015. The allocations are therefore effective immediately.
TMDL for Los Angeles River *T~~t~~rash* Effective Date: ~~9~~September~~/~~ 23, ~~/~~2008 BPA Chapter 7-2 Resolution No.:07-012, R15-006 (revision)	California State University Los Angeles California State University Northridge	Los Angeles River	**Requirements for Implementing the TMDL:** The Phase II entities identified in this TMDL section shall implement either 1) Full Capture Systems, 2) partial capture devices and the application of institutional controls, or 3) a scientifically based alternative compliance approach. A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation). A partial capture device does not meet the definition of a Full Capture System; a partial capture device may not trap all particles 5 mm or greater or may not have the minimum design treatment capacity of a one year, one hour, storm event. Thus, a MS4 Permittee must implement institutional controls in combination with the partial capture device to comply with the wasteload allocations. MS4 Permittees employing partial capture devices or institutional controls shall use a mass balance approach based on the trash daily generation rate, assessed annually, to demonstrate compliance. (See Fact Sheet for compliance determination information) An alternative compliance approach to implementing either 1) a Full Capture System or 2) partial capture devices and the application of institutional controls must be submitted for approval by the Los Angeles Regional Water Board Executive Officer. By [Hard Date: 1 year from adoption], MS4 Permittees seeking approval of an alternative compliance approach, shall include in their submittal any proposed studies of institutional controls and partial capture devices for their particular subwatershed(s) or demonstrate that existing studies are representative and transferable to the implementing area. Permittees shall also provide a schedule for periodic, compliance effectiveness demonstration and evaluation.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No	Phase II Entities Municipality	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 4: Los Angeles Regional Water Board			
TMDL for Los Angeles River *Trash* *(Continued)*			The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations (0% of baseload discharged) is to be achieved by September 30, 2016. The allocations are therefore effective immediately.
TMDL for Revolon Slough and Beardsley Wash *Trash* Effective Date: March 6, 2008 BPA: Chapter 7 Resolution No.: 2007-007	Naval Base Ventura County (includes Port Hueneme & Point Magu)	Revolon Slough and Beardsley Wash	**Requirements for Implementing the TMDL:** The Naval Base Ventura County (including Port Hueneme and Point Magu) shall implement Full Capture Systems. A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation). The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations (0% of baseload discharged) is to be achieved by March 6, 2016. The allocations are therefore effective immediately.
TMDL for Ventura River Estuary *Trash* Effective Date: 3March/ 6, /2008 BPA Chapter 7-25 Resolution No.:07-008	Ventura County Fairgrounds (Seaside Park and Ventura County Fairgrounds)	Ventura River	**Requirements for Implementing the TMDL:** The Ventura County Fairgrounds (including Seaside Park and Ventura County Fairgrounds) shall implement Full Capture Systems. A Full Capture System is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one year, one hour, storm event. The Rational Equation is used to compute the peak flow rate (See Fact Sheet for Rational Equation). The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final wasteload allocations are to be achieved by March 6, 2016. The allocations are therefore effective immediately.
Malibu Creek Trash Effective Date:7/7/2009 BPA Chapter 7-30 Resolution No.:R4-2008-007			

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities** ~~**Municipality**~~	**Impaired Water Body**	**Deliverables/Actions Required** ~~**/Waste Load Allocations**~~
Region 5: Central Valley Regional Water Board			
TMDL for Lower San Joaquin River *Diazinon & Chlorpyrifos* Effective Date: December 20,2006 BPA: Chapter 3 Resolution No.: R5-2005-0138	~~City of Atwater~~ ~~City of Ceres~~ ~~City of Delhi~~ ~~City of Hughson~~ ~~City of Keyes~~ ~~City of Livingston~~ ~~City of Los Banos~~ ~~City of Madera (including the area known as Bonadelle Ranchos-Ma and Madera Acres)~~ ~~County of Madera~~ ~~City of Merced~~ ~~County of Merced~~ ~~City of Oakdale~~ City of Patterson ~~City of Ripon~~ ~~City of Riverbank~~ ~~City of Salida~~ County of San Joaquin (Areas Outside of City of Stockton Urbanized	San Joaquin River from Mendota Dam to Vernalis	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the Lower San Joaquin River Diazinon and Chlorpyrifos Control Program~~ ~~**Waste Load Allocations:**~~ ~~The wasteload allocations for NPDES permitted municipal storm water Permittee shall not exceed the sum (S) of one (1) as defined below:~~ ~~$S = \frac{C_D}{WQO_D} + \frac{C_C}{WQO_C} \leq 1.0$~~ ~~where~~ ~~$C_D$ = diazinon concentration~~ ~~C_C = chlorpyrifos concentration~~ ~~WQO_D = acute or chronic diazinon water quality objective (0.160 and 0.100 ug/L, respectively)~~ ~~WQO_C = acute or chronic chlorpyrifos water quality objective. (0.025 and 0.015 ug/L, respectively)~~ ~~For the purpose of calculating the sum (S) above, non-detectable concentrations are considered to be zero.~~ ~~**Provisions** **Requirements** for ~~**i**~~**Implementing the** ~~**Control Program**~~ **TMDL and Monitoring Requirements**: The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement the following actions, effective immediately: 1. a. Conduct an assessment: By [Hard Date: one year from effective date], the Permittees shall complete and submit to the Central Valley Regional Water Board Executive Officer an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and attainment of waste load allocations in urban discharge; and evaluate attainment of established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. The Permittees are responsible for providing the assessment and necessary information related to the assessment to the Central Valley Regional Water Board Executive Officer for review and approval. The assessment information may come from the Permittee's monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices.

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for Lower San Joaquin River *Diazinon & Chlorpyrifos* (continued)	Area) ~~County of Stanislaus~~ ~~City of Turlock~~ ~~City of Winton~~		1 b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section. 2. Pesticide Management Plans: Unless the Permittees can demonstrate attainment of the waste load allocations, the Permittee shall submit a Pesticide Management Plan for review and approval by the Central Valley Regional Water Board Executive Officer by [Hard Date: one and half years from effective date]. The Pesticide Management Plan shall include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. Management plan provisions addressing diazinon and chlorpyrifos can be included in the Pesticide Management Plans covering current use pesticides with the goal of reducing the discharge of pesticides from municipal storm water to receiving water. Pesticide Management Plans shall address the Permittee's own use of pesticides, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. Pesticide Management Plans shall include identifying and promoting, within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. Additionally, the plan shall include the integration of IPM into the Permittee's municipal operations and be promoted to residents, businesses, and public agencies within each Permittee's jurisdiction through public outreach. The Central Valley Regional Water Board Executive Officer may require revisions to the Pest Management Plans if the Central Valley Regional Water Board Executive Officer determines that the Pest Management Plan is not likely to attain the waste load allocations. Pest Management Plans may be submitted by individual Permittee or Permittee groups and may refer to actions required by other agencies or actions required elsewhere in this permit. Pest Management Plans may include actions to reduce MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction program. To receive credit toward compliance for such participation, the Permittees must demonstrate that they have participated in the implementation of the program (i.e., contributing materially and in proportion in the size of a Permittee's service area, including, but not limited to, implementation of reduction program measures, membership, contribution of resources, etc.). Examples of programs that could be eligible include Our Water Our World (outreach), a recognized regional monitoring program, and California Stormwater Quality Association's (CASQA) pesticide regulatory initiative. In developing the monitoring and reporting programs for the Permittee, the Central Valley Water Board will, in coordination with the DPR,

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
			assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by December 1, 2010. The allocations are therefore effective immediately. ~~Dischargers not meeting wasteload allocations will be required by the Executive Officer to submit a management plan describing actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. The Executive Officer may require revisions to the management plans if compliance with wasteload allocations are not attained or the management plan is not likely to attain compliance. Management plans may be submitted by individual dischargers or discharger groups.~~ ~~In determining compliance dates for wasteload allocations, the Regional Water Board will consider data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharge.~~ ~~Dischargers must consider weather a proposed alternative to diazinon or chlorpyrifos has the potential to degrade ground or surface water. If the alternative has the potential to degrade groundwater, alternative pest control methods must be considered. If the alternative has the potential to degrade surface water, control measures must be implemented to ensure the applicable water quality objectives and State and Regional Water Boards' policies are not violated, including State Water Resources Control Board Resolution 68-16.~~ ~~**Compliance with Waste Load Allocations:**~~ ~~**01 December 2010**~~

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for Sacramento and San Joaquin Delta Diazinon & Chlorpyrifos Effective Date: October 10, 2006 BPA: Chapter 31 Resolution No.: R5-2006-0061	City of Lathrop City of Lodi ~~City of Davis~~ ~~City of Dixon~~ ~~City of Franch Camp~~ City of Manteca ~~City of Morada~~ ~~City of Vacaville~~ City of Rio Vista County of San Joaquin City of Tracy City of West Sacramento ~~City of Woodland~~	Sacramento-San Joaquin Delta Waterways	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the Control Program for Diazinon and Chlorpyrifos Runoff into the Sacramento-San Joaquin Delta Waterways~~ ~~**TMDL Waste Load Allocations:**~~ ~~The wasteload allocations for NPDES permitted municipal storm water Permittee shall not exceed the sum (S) of one (1) as defined below:~~ $$S = \frac{C_D}{WQO_D} + \frac{C_C}{WQO_C} \leq 1.0$$ ~~where~~ ~~C_D = diazinon concentration~~ ~~C_C = chlorpyrifos concentration~~ ~~WQO_D = acute or chronic diazinon water quality objective (0.160 and 0.100 ug/L, respectively)~~ ~~WQO_C = acute or chronic chlorpyrifos water quality objective. (0.025 and 0.015 ug/L, respectively)~~ ~~For the purpose of calculating the sum (S) above, non-detectable concentrations are considered to be zero.~~ ~~**Provisions** **Requirements for Monitoring and ~~i~~Implementing the ~~Control Program~~TMDL:**~~ The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement the following actions, effective immediately: 1. a. Conduct an assessment: By [Hard Date: one year from the effective date], the Permittees shall complete and submit to the Central Valley Regional Water Board Executive Officer an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and attainment of waste load allocations in urban discharge; and evaluate attainment of established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. Permittees are responsible for providing the assessment and necessary information related to the assessment to the Central Valley Regional Water Board Executive Officer for review and approval. The assessment information may come from the Permittee's monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices. 1. b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for Sacramento and San Joaquin Delta Diazinon & Chlorpyrifos (continued)			participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section. 2. Pesticide Management Plans: Unless Permittees can demonstrate attainment of the waste load allocations, Permittees shall submit a Pesticide Management Plan for review and approval by the Central Valley Water Board Executive Officer by [Hard Date: one and half years from effective date]. The Pesticide Management Plan shall include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. Management plan provisions addressing diazinon and chlorpyrifos can be included in the Pesticide Management Plans covering current use pesticides with the goal of reducing the discharge of pesticides from municipal storm water to receiving water. Pesticide Management Plans shall address the Permittee's own use of pesticides, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. Pesticide Management Plans shall include identifying and promoting, within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. Additionally, the Pesticide Management Plan shall include the integration of IPM into the Permittee's municipal operations and be promoted to residents, businesses, and public agencies within each Permittee's jurisdiction through public outreach. The Central Valley Regional Water Board Executive Officer may require revisions to the Pesticide Management Plans if the plan is not likely to attain the waste load allocations. Pesticide Management Plans may be submitted by individual Permittee or Permittee groups and may refer to actions required by other agencies or actions required elsewhere in this permit. Pesticide Management Plans may include actions to reduce MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction programs. To receive credit toward compliance for such participation, the Permittees must demonstrate that they have participated in the implementation of the program (i.e., contributing materially and in proportion in the size of a Permittee's service area, including, but not limited to, implementation of reduction program measures, membership, contribution of resources, etc.). Examples of programs that could be eligible include Our Water Our World (outreach), a recognized regional monitoring program, and California Stormwater Quality Association's (CASQA's) pesticide regulatory initiative. In developing the monitoring and reporting programs for specific Permittees, the Central Valley Water Board will, in coordination with DPR, assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary.

ATTACHMENT G – Region- Specific Requirements
Regional Water Board- Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
			The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by December 1, 2011. The allocations are therefore effective immediately. ~~Dischargers not meeting wasteload allocations will be required by the Executive Officer to submit a management plan describing actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. The Executive Officer may require revisions to the management plans if compliance with wasteload allocations are not attained or the management plan is not likely to attain compliance. Management plans may be submitted by individual dischargers or discharger groups.~~ ~~In determining compliance dates for wasteload allocations, the Regional Water Board will consider data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharge.~~ ~~To address pesticide impairment of receiving waters, Permittees shall create and implement a Regional Board-approved Pesticide Plan that addresses their own use of pesticides including diazinon and chlorpyrifos, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. The goal of the Pesticides Plan is to reduce the discharge of pesticides from municipal storm water systems to receiving waters. The Permittees shall identify and promote within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. IPM shall be integrated into the Permittee municipal operations and promoted to residents, businesses, and public agencies through the public outreach program.~~ ~~Permittees shall complete an assessment to determine the diazinon and chlorpyrifos levels in receiving waters. Monitoring may be done in conjunctions with other municipalities and/or discharges in the Central Valley. Permittees are responsible for providing the necessary information. The information may come from the dischargers' monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices. The purposes of the study are to evaluate compliance with established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water and to determine compliance with wasteload allocations. In cases where the Permittees are not in compliance with the wasteload allocations, the Regional Water Board may request additional assessments and documentation of control program effectiveness. Assessment shall also consider whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts and if toxicity impairment is being caused or contributed to due to synergistic effects of multiple pollutants.~~

ATTACHMENT G – Region- Specific Requirements
Regional Water Board- Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities Municipality	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 5: Central Valley Regional Water Board			
Sacramento and San Joaquin Delta Diazinon & Chlorpyrifos (continued)			Modifications to these requirements may be made through approval from the Executive Officer in order to facilitate discharger participation in the Delta Regional Monitoring Program. **Deadline for Compliance with Waste Load Allocations:** 01 December 2010

ATTACHMENT G – Region- Specific Requirements
Regional Water Board- Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities~~Municipality~~**	**Impaired Water Body**	**Deliverables/Actions Required~~/Waste Load Allocations~~**
Region 5: Central Valley Regional Water Board			
TMDL for Sacramento and Feather Rivers *Diazinon & Chlorpyrifos* Effective Date: May 3, 2007 BPA: Attachment 1 Resolution No.: R5-2007-0034	City of Anderson ~~County of Butte~~ County of Colusa ~~City of~~ Linda CDP ~~City of Chico~~ City of Marysville Olivehurst CDP City of Red Bluff ~~City of Live Oak~~ ~~City of Lincoln~~ ~~City of Loomis~~ City of Redding County of Shasta County of Sutter ~~South~~ City of Yuba City ~~City of Roseville~~ ~~City of Rocklin~~ County of Yuba	Sacramento River from Shasta Dam to I Street Bridge Feather River from Fish Barrier Dam to Sacramento River	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the Control Program for Diazinon and Chlorpyrifos Runoff into the Sacramento and Feather Rivers~~ ~~**Waste Load Allocations:**~~ ~~The wasteload allocations for NPDES permitted municipal storm water Permittee shall not exceed the sum (S) of one (1) as defined below:~~ ~~$S = \frac{C_D}{WQO_D} + \frac{C_C}{WQO_C} \leq 1.0$~~ ~~where~~ ~~$C_D$ = diazinon concentration~~ ~~C_C = chlorpyrifos concentration~~ ~~WQO_D = acute or chronic diazinon water quality objective (0.160 and 0.100 ug/L, respectively)~~ ~~WQO_C = acute or chronic chlorpyrifos water quality objective. (0.025 and 0.015 ug/L, respectively)~~ ~~For the purpose of calculating the sum (S) above, non-detectable concentrations are considered to be zero.~~ ~~**Provisions**~~**Requirements for Monitoring and Implementing the TMDL:** The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement the following actions, effective immediately: 1. a. Conduct an assessment: : By [Hard Date: one year from the effective date], the Permittees shall complete and submit to the Central Valley Regional Water Board Executive Officer an assessment to, at a minimum: determine the diazinon and chlorpyrifos levels and attainment of waste load allocations in urban discharge; and evaluate attainment of established water quality objectives applicable to diazinon and chlorpyrifos for the receiving water. Assessment monitoring may be done in coordination or conjunction with other municipalities and/or Permittees. Permittees are responsible for providing the assessment and necessary information related to the assessment to the Central Valley Regional Water Board Executive Officer for review and approval. The assessment information may come from the Permittee's monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices. 1. b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section.

ATTACHMENT G – Region - Specific Requirements
Regional Water Board - Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for Sacramento and Feather Rivers *Diazinon & Chlorpyrifos* (continued)			2. Pesticide Management Plans: Unless Permittees can demonstrate attainment of the waste load allocations, Permittees shall submit a Pesticide Management Plan for review and approval by the Central Valley Regional Water Board Executive Officer by [Hard Date: one and half years from effective date]. The Pesticide Management Plan shall include a description of actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. Management plan provisions addressing diazinon and chlorpyrifos can be included in Pesticide Management Plans covering current use pesticides with the goal of reducing the discharge of pesticides from municipal storm water to receiving water. Pesticide Management Plans shall address the Permittee's own use of pesticides, and to the extent authorized by law, the use of such pesticides by other sources within their jurisdictions. Pesticide Management Plans shall include identifying and promoting, within the context of integrated pest management (IPM) programs, the use of pest management practices that minimize the risk of pesticide impacts on surface water quality resulting from urban runoff discharges. Additionally, the plan shall include the integration of IPM into the Permittee's municipal operations and be promoted to residents, businesses, and public agencies within each Permittee's jurisdiction through public outreach. The Central Valley Regional Water Board Executive Officer may require revisions to the Pesticide Management Plans if the management plan is not likely to attain the waste load allocations. Pesticide Management Plans may be submitted by individual Permittee or Permittee groups and may refer to actions required by other agencies or actions required elsewhere in this permit. Management plans for pesticides may include actions to reduce MS4 pesticide discharges through participation or support of a regional or statewide pesticide reduction program. To receive credit toward compliance for such participation, the Permittees must demonstrate that they have participated in the implementation of the program (i.e., contributing materially and in proportion in the size of a Permittee's service area, including, but not limited to, implementation of reduction program measures, membership, contribution of resources, etc.). Examples of programs that could be eligible include Our Water Our World (outreach), a recognized regional monitoring program, and California Stormwater Quality Association's (CASQA) pesticide regulatory initiative. In developing the monitoring and reporting programs for Permittees, the Central Valley Water Board will, in coordination with the DPR, assist the Permittee in identifying diazinon and chlorpyrifos alternatives for which monitoring may be necessary. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities~~Municipality~~**	**Impaired Water Body**	**Deliverables/Actions Required~~/Waste Load Allocations~~**
Region 5: Central Valley Regional Water Board			
~~Sacramento and Feather Rivers~~ *~~Diazinon & Chlorpyrifos~~* ~~(continued)~~			TMDL specifies that the final WLAs are to be achieved by December 1, 2011. The allocations are therefore effective immediately. ~~Dischargers not meeting wasteload allocations will be required by the Executive Officer to submit a management plan describing actions that will be taken to reduce diazinon and chlorpyrifos discharges to meet the applicable allocations. The Executive Officer may require revisions to the management plans if compliance with wasteload allocations are not attained or the management plan is not likely to attain compliance. Management plans may be submitted by individual dischargers or discharger groups.~~ ~~In determining compliance with the waste load allocations, the Regional Water Board will consider data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharge.~~ ~~Dischargers must consider weather a proposed alternative to diazinon or chlorpyrifos has the potential to degrade ground or surface water. If the alternative has the potential to degrade groundwater, alternative pest control methods must be considered. If the alternative has the potential to degrade surface water, control measures must be implemented to ensure the applicable water quality objectives and State and Regional Water Boards' policies are not violated, including State Water Resources Control Board Resolution 68-16.~~ ~~**Deadline for Compliance withWaste Load Allocations**:~~ ~~11 August 2008~~

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
~~**Sacramento and Feather Rivers**~~ ~~*Diazinon & Chlorpyrifos*~~ ~~(continued)~~			
TMDL for Lower San Joaquin River, San Joaquin River, Stockton Deep Water Ship Channel TMDL *Organic Enrichment and Low Dissolved Oxygen* Effective Date: February 27, 2007 BPA: Chapter IV-37.01 Resolution No.: R5-2005-005 **TMDL for Lower San Joaquin River, San Joaquin River, Stockton DWSC TMDL** *Organic Enrichment and Low*	Atwater City ~~City of French Camp~~ Bret Harte Census Designated Place (CDP) ~~City of~~ Ceres City Delhi CDP Empire CDP Escalon City Hughson City Keyes CDP Lathrop City Livingston City	Lower San Joaquin River (Stockton Deep Water Ship Channel, DWSC)	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the requirements of the San Joaquin River Dissolved Oxygen TMDL.~~ ~~**Wasteload Allocations:**~~ ~~Waste load allocations for all NPDES-permitted discharges of oxygen demanding substances were set at the corresponding effluent limitations applicable on 28 January 2005.~~ ~~**Provision**~~**Requirements for Implementing the ~~Control Program~~TMDL:** The Phase II Entities identified within this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement best management practices (BMPs) to control the discharge of oxygen demanding substances and their precursors in their urban discharge. This will be implemented through compliance with the following Small MS4 Permit requirements: • Discharge Prohibitions B.4 • Section E.6.a. Legal Authority • Section E.9. Illicit Discharge Detection and Elimination • Section E.10. Construction Site Storm Water Runoff Control Program • Section E.11. Pollution Prevention/Good Housekeeping • Section E.12. Post-Construction • Section E.13. Monitoring • Section E.14. Program Effectiveness • Section E.15 Compliance with Implementation Process ~~Waste load allocations and permit conditions for new or expanded point source discharges in the SJR Basin upstream of the DWSC, including NPDES and storm water, will be based on the discharger~~

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities Municipality	Impaired Water Body	Deliverables/Actions Required Waste Load Allocations
Region 5: Central Valley Regional Water Board			
Dissolved Oxygen (Continued)	Los Banos City Manteca City Merced City Merced County Newman City City of Oakdale City City of Patterson City Ripon City City of Riverbank City Salida CDP San Joaquin County County of Stanislaus County City of Winton Turlock City West Modesto CDP		demonstrating that the discharge will have no reasonable potential to cause or contribute to a negative impact on the dissolved oxygen impairment in the DWSC. In measuring compliance with permit requirements related to attainment of these wasteload allocations (WLAs), credit will be given for control measures implemented after July 12, 2004. The Permittees shall document, in their Annual Reports, the implementation of BMPs to control the discharge of oxygen demanding substances and precursors in their urban discharge. Each Annual Report shall include documentation of compliance with the Permit requirements and a discussion of the effectiveness of the BMPs. In subsequent years three through five, Permittees shall complete and submit a Program Effectiveness Assessment, as specified in Section E.14 in this Order. The Permittees shall use the information gained from the Program Effectiveness Assessments to improve their program and identify new BMPs or modifications of existing BMPs to ensure that they are meeting applicable WLAs. The Program Effectiveness Assessment information may come from the Permittees' monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices. **Monitoring Provisions:** 1. By [Hard Date: one year from the effective date], Renewal Permittees, as identified within the Designation Criteria column in Attachment A of this Order, may incorporate their individual monitoring and reporting plan, or the Permittees can collectively incorporate a single monitoring plan, within their Storm Water Management Plans approved under the previous 2003 Permit[4]; all other Permittees shall submit the Monitoring and Reporting Plan for Central Valley Regional Water Board Executive Officer approval. 2. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by December 31, 2011. The allocations are therefore effective immediately. **Compliance with waste load allocations:** December 31, 2011 **Compliance with implementation provisions:**

[4] 2003-0005-DWQ

ATTACHMENT G – Region - Specific Requirements
Regional Water Board - Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities** ~~**Municipality**~~	**Impaired Water Body**	**Deliverables/Actions Required** ~~**/Waste Load Allocations**~~
Region 5: Central Valley Regional Water Board			
			~~Ongoing~~
TMDL for the Delta ~~**TMDL**~~ *Methylmercury* Effective Date: ~~Pending~~October 20, 2011 Resolution No.: R5-2010-0043	City of Lathrop City of Lodi City of Rio Vista City of Tracy ~~County of Solano~~ City of West Sacramento County of San Joaquin County of Yolo	Sacramento-San Joaquin Delta ~~Waterways~~and Yolo Bypass waterways listed in Appendix 43 of the Basin Plan – Table A43-1	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the requirements of the Delta methylmercury TMDL.~~ ~~**Wasteload Allocations (methylmercury g/yr):**~~ ~~Lodi (City of) 0.053~~ ~~San Joaquin (County of) 1.486~~ ~~Rio Vista (City of) 0.0078~~ ~~Solano (County of) 0.062~~ ~~West Sacramento (City of) 0.64~~ ~~Yolo (County of) 0.124~~ ~~Lathrop (City of) 0.097~~ ~~Tracy (City of) 0.65~~ ~~**Provision**~~**Requirements for Implementing the** ~~**Control Program**~~**TMDL:** 1. The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement best management practices (BMPs) to control erosion and sediment discharges with the goal of reducing mercury discharges. This will be implemented through compliance with the following Small MS4 Permit requirements: • Discharge Prohibitions B.4 • Section E.6.a Legal Authority • Section E.9 Illicit Discharge Detection and Elimination • Section E.10 Construction Site Storm Water Runoff Control Program • Section E.11 Pollution Prevention/Good Housekeeping • Section E.12 Post-Construction • Section E.13 Monitoring • Section E.14 Program Effectiveness • Section E.15 Compliance with Implementation Provisions 2. Between 2014 and 2020 (Phase 1 of the Delta Mercury Control Program), the large MS4 permittees (not part of this permit) in the Delta are developing and evaluating BMPs to control methylmercury discharges in storm water. During this period, the Permittees should implement methylmercury management practices identified by the large MS4 permittees or other management practices identified by the Delta Mercury Control Program studies that are reasonable and feasible.

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Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for the Delta *Methylmercury* (Continued)			3. The Permittees shall implement the Delta Mercury Exposure Reduction Program (see *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Chapter IV*). This requirement may be met by ongoing participation in the collective Mercury Exposure Reduction Program work plan, dated October 2013 (available at http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/hg_exposure_reduction/2013oct_merp_wrkpln.pdf). Participation can include financial contributions and in-kind services that directly support exposure reduction activities. 4. The Permittees shall document in their annual report, compliance with erosion and sediment control requirements in this Order, including a discussion of effectiveness of BMPs. The Permittees shall submit a Program Effectiveness Assessment as specified in Section E.14. of the Permit. 5. As specified in section E.15.d, the Permittees shall document implementation of any methylmercury controls or best management practices in their Annual Reports. **Monitoring Provisions:** The following monitoring requirements apply after the Central Valley Water Board's review of Delta Mercury Control Program, (see the Delta Mercury Control Program in the Basin Plan) or 20 October 2022, whichever date occurs first. 1. a. The Permittees shall begin monitoring methylmercury loads and concentrations in storm water discharges to assess compliance with the TMDL allocations. Within one year of the Delta Mercury Control Program review, (or 20 October 2022, whichever date occurs first), the Permittees shall submit a plan, for Central Valley Regional Water Board Executive Officer approval, describing the locations and frequency of methylmercury monitoring. The Plan shall be representative of the MS4 service area. The sampling locations, frequencies, and reporting may be the same as the requirements in this Order. The Permittees shall implement the monitoring plan within six (6) months of Central Valley Regional Water Board Executive Officer approval. 1. b. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in the Delta Regional Monitoring Program or other collective monitoring efforts in lieu of some or all of the individual monitoring requirements required by this section. 2. Progress toward attainment of the waste load allocations (WLA) shall be documented in the Annual Report by monitoring methylmercury loads from the MS4 or by quantifying the annual average methylmercury load reduced by implementing pollution prevention activities and source and treatment controls. The Delta Mercury Control Program (see *Water Quality*

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
			Control Plan for the Sacramento River and San Joaquin *River Basins, Chapter IV*) provides guidance for the calculation of methylmercury loading from urban areas and determination of attainment. The assessment information may come from the Permittee's monitoring efforts, monitoring programs conducted by State or federal agencies or collaborative watershed efforts, or from special studies that evaluate the effectiveness of management practices, as approved by the Central Valley Regional Water Board Executive Officer. The WLAs identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by December 31, 2030. ~~Implement BMPs to control erosion and sediment discharges with the goal of reducing mercury discharges.~~ ~~**Compliance with implementation provisions:**~~ ~~Ongoing~~

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for Clear Lake ~~TMDL~~ *Nutrients* Effective Date: ~~6/23/06~~ September 21, 2007 BPA: Chapter IV-37.04 Resolution No.: R5-2006-0060	City of Clearlake County of Lake City of Lakeport	Clear Lake	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the requirements of the Clear Lake TMDL.~~ ~~**Waste Lload Allocations:**~~ ~~County of Lake, City of Clearlake and City of Lakeport combined 2,000 kg phosphorus/yr~~ ~~**Provision**~~**Requirements for Implementing the ~~Control Program~~TMDL:** The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall implement best management practices (BMPs) to control erosion and sediment discharges as a means of controlling phosphorous. These will be implemented through compliance with the following Small MS4 Permit requirements: • Discharge Prohibitions B.4 • Section E.6.a. Legal Authority • Section E.9. Illicit Discharge Detection and Elimination • Section E.10. Construction Site Storm Water Runoff Control Program • Section E.11. Pollution Prevention/Good Housekeeping • Section E.12. Post-Construction • Section E.13. Monitoring • Section E.14. Program Effectiveness • Section E.15 Compliance with Implementation Provisions The Permittees shall document implementation of erosion and sediment BMPs in their Annual Reports as specified in Section E.15.d of this Order. Each Annual Report shall include documentation of compliance with the above Permit requirements. Permittees shall complete and submit Program Effectiveness Assessments as specified in Section E.14 of this Order. The Permittees shall use the information gained from the Program Effectiveness Assessments to improve their program and identify new BMPs or modifications of existing BMPs. **Monitoring Provisions:** 1. By [Hard Date: 6 months from effective date], each Permittee shall incorporate individual monitoring and reporting plans, or the Permittees can collectively incorporate a single monitoring plan, into their respective Storm Water Management Plans approved under the previous 2003 Permit[5]. The monitoring plans shall enable the Central Valley Water Board to evaluate the MS4 Permittee's progress toward attainment of the WLAs and shall be representative of the respective MS4 service area. 2. With Central Valley Regional Water Board Executive Officer approval, the Permittees may participate in a regional monitoring program or other collective monitoring efforts in lieu of

[5] ~~2003-0005-DWQ~~

ATTACHMENT G – Region - Specific Requirements
Regional Water Board - Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 5: Central Valley Regional Water Board			
TMDL for Clear Lake ~~TMDL~~ *Nutrients* (Continued)			some or all of the individual monitoring requirements required by this section. 3. Progress toward attainment of the WLA shall be documented in the Annual Report. Permittees may work with Central Valley Regional Water Board staff to estimate nutrient loadings from activities in the watershed. Loading estimates can be conducted using either water quality monitoring or computer modeling or a combination of the two. The WLAs identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by June 19, 2017. ~~Storm water permittees will work with staff to develop and implement a plan to collect the information needed to determine what factors are important in controlling nuisance blooms and to recommend what control strategy should be implemented. Plan was submitted in 2008.~~ ~~**Compliance with Waste Load Allocations:**~~ ~~June 2017~~

ATTACHMENT G – Region - Specific Requirements
Regional Water Board - Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~/Waste Load Allocations~~
Region 6: Lahontan Regional Water Board			
TMDL for **Middle Truckee River Watershed, Placer, Nevada and Sierra Counties** *Sediment* Effective Date: May 14, 2008 BPA: Section 4.13 Resolution No.: R6T-2008-0019	County of Placer City of Truckee	Truckee River	~~**Purpose of Provisions:**~~ ~~The purpose of these provisions is to implement the requirements of the Middle Truckee River Watershed TMDL.~~ ~~**Urban Areas Wasteload Allocations:**~~ ~~4,936 tons per year of total suspended sediment load.~~ ~~**Non-urban Wasteload Allocations:**~~ ~~35,392 tons per year of total suspended sediment load.~~ ~~**Provision**~~**Requirements for Implementing the ~~Control Program~~TMDL:** The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall develop, implement, and report best management practices (BMPs) as follows: 1. Road sand application ~~best management practices (~~BMPs~~)~~ and recovery tracking - Road sand ~~is~~ shall be applied using BMPs and recovered to the maximum extent practicable. Amounts of road abrasives and de-icing agents applied and recovered must be monitored and reported annually. 2. Dirt roads maintained or decommissioned - Identified dirt roads with inadequate erosion control structures ~~are~~ shall be rehabilitated and maintained, or decommissioned. Permittees shall ~~F~~focus on dirt roads with high potential for sediment delivery to surface waters (e.g., within 200 feet of watercourse). 3. Legacy sites restoration and best management practices implementation - Identified legacy sites shall be~~are~~ restored or storm water BMPs ~~are~~ shall be implemented to prevent erosion and sedimentation to surface waters. The wasteload allocations (WLAs) identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by May 14, 2028. ~~**Compliance with waste load allocations:**~~ ~~target of 25 milligrams per liter, or less, of suspended sediment is estimated for 2028 (i.e., 20 years after the adoption of the TMDL in 2008).~~

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities**	**Impaired Water Body**	**Deliverables/Actions Required**
Region 8: Santa Ana Regional Water Board			
TMDL for San Diego Creek, Upper and Lower Newport Bay *Organochlorine Compounds* Effective date: July 2013 Resolution No.: 2011-0037	Orange County Fairgrounds University of California, Irvine	San Diego Creek, Upper Newport Bay, Lower Newport Bay	**Requirements for Implementing the TMDL:** The Orange County Fairgrounds and the University of California, Irvine shall: 1. Per the Small MS4 Monitoring Flow Chart in this Order, the Permittees are: a. Not covered under an Ocean Plan Exception; b. Are identified in Attachment G (as noted under Phase II Entities here); c. Are not required to conduct Water Quality Monitoring; and d. Do discharge to a waterbody/waterbodies impaired (on 303(d) list for organochlorine compounds) by urban runoff. Therefore, the Permittees must initiate consultation with Regional Water Board staff by [Hard Date: 1 month from effective date] to determine the implementation and monitoring requirements (contained in a TMDL Compliance Plan) for San Diego Creek, Upper Newport Bay, and Lower Newport Bay. 2. As a result of the consultation with Regional Water Board staff, the Permittees shall submit their final TMDL Compliance Plan by [Hard Date: 13 months from effective date] to the Regional Water Board's Executive Officer. The Permittees shall implement the Compliance Plan immediately upon submittal. The wasteload allocations (WLAs) identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by December 31, 2020.
TMDL for Lake Elsinore/Canyon Lake *Nutrients* Resolution No.: R8-2004-0037 Effective date: July 26, 2005	March Air Reserve Base (ARB)	Lake Elsinore, Canyon Lake	**Lake Elsinore/Canyon Lake Nutrient TMDL Joint Responsibility Option** March ARB shall implement the following actions: a. March ARB has already committed to cooperative implementation actions, monitoring actions, special studies and implementation actions jointly with other responsible agencies as an active paying member of the Lake Elsinore/Canyon Lake TMDL Task Force. March ARB shall continue with those actions in accordance with paragraph I.H. of the Agreement to Form the Lake Elsinore and Canyon Lake TMDL Task Force, dated June 18, 2012. b. If the Regional Water Board is notified that March ARB is not fulfilling its Lake Elsinore/Canyon Lake Task Force obligations or if March ARB chooses to opt out of the cooperative approach with the TMDL Task Force for implementation actions, monitoring actions, and/or special studies, March ARB shall provide formal notification to the Regional Water Board. March ARB will then be required to conduct the following activities: 1. Within 30 days of such notification, submit a proposed update of the March ARB SWPPP to address nutrient discharges; 2. Within 30 days of such notification, submit a proposed March ARB specific nutrient monitoring program. This monitoring program must be prepared and executed in a

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities	Impaired Water Body	Deliverables/Actions Required
Region 8: Santa Ana Regional Water Board			
TMDL for Lake Elsinore/Canyon Lake *Nutrients* (Continued)			manner that compliance with waste load allocations will be determined. The monitoring program must be consistent with the most current, Regional Water Board approved, Lake Elsinore/Canyon Lake TMDL Task Force monitoring plan; 3. Within 60 days of such notification, submit a proposed water quality monitoring program to evaluate the impairment status of Lake Elsinore and Canyon Lake. 4. Submit an annual report by August 15th of each year. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by December 31, 2020.
TMDL for Middle Santa Ana River *Bacterial Indicator* Effective date: September 1, 2006 Resolution No.: R8-2005-0001	CA Institute for Men CA Institute for Women CA Rehab Center California State Polytechnic University, Pomona University of California, Riverside	Santa Ana River, Reach 3, Chino Creek, Mill Creek, Prado Park Lake	**Requirements for Implementing the TMDL** The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) shall: 1. Monitoring Program: By [Hard Date: 6 months from adoption] submit for approval by the Regional Water Board or its designee a watershed-wide compliance monitoring and facility specific bacterial indicator monitoring program that is adequate to determine compliance with the dry and wet season waste load allocation. The Permittees may alternatively participate in a stakeholder group monitoring program for the same purpose. The monitoring program must be consistent with the existing Santa Ana River Watershed Bacteria Monitoring Program – Monitoring Plan, approved by the Regional Water Board on March 11, 2016 (or the most current, Regional Water Board approved revision). 2. Dry Season Bacterial Indicator Reduction Plan - By [Hard Date: 6 months from adoption], develop a facility specific Bacterial Reduction Plan that details the plan and schedule for achieving the Dry Season Bacterial Indicator WLA as soon as feasible.. 3. Wet Season Bacterial Indicator Reduction Plan – by January 31, 2018, develop a facility specific Bacterial Reduction Plan that details the plan and schedule for achieving the Wet Season Bacterial Indicator WLA by December 31, 2025. The Dry Season and Wet Season Bacterial Indicator Reduction Plans should include the following: 1. The specific Best Management Practices (BMPs) implemented to reduce the concentration of indicator bacteria from the facility and the water quality improvements expected to result from these BMPs. 2. Any specific regional treatment facilities and the locations where such facilities will be built to reduce the concentration of indicator bacteria discharged from the facility and the expected water quality improvements to result when complete. 3. The technical documentation used to conclude that the Bacterial Indicator Reduction Plan, once fully implemented, is expected to achieve compliance with either the dry season or wet season urban wasteload allocation for indicator bacteria by the specified compliance date. 4. A detailed schedule for implementing the Bacterial Indicator Reduction Plan. The schedule must identify measurable and verifiable milestones to assess satisfactory progress toward

ATTACHMENT G – Region-Specific Requirements
Regional Water Board-Approved TMDLs with urban runoff listed as a source

TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities	Impaired Water Body	Deliverables/Actions Required
Region 8: Santa Ana Regional Water Board			
TMDL for Middle Santa Ana River *Bacterial Indicator* (Continued)			meeting the dry and wet season wasteload allocations. 5. The specific metric(s) that will be established to demonstrate the effectiveness of the Bacterial Indicator Reduction Plan. 6. Detailed descriptions of any additional BMPs planned, and the time required to implement those BMPs, in the event that data from the watershed-wide water quality monitoring program indicate that water quality objectives for indicator bacteria are still being exceeded after the Bacterial Indicator Reduction Plan is fully implemented. The wasteload allocations identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs for Dry Weather are to be achieved by December 31, 2015. The allocations are therefore effective immediately. The TMDL specifies that the final WLAs for Wet Weather are to be achieved by December 31, 2025.

<table>
<tr><th>TMDL
Effective Date
Basin Plan Amendment (BPA)
Water Board Resolution No.</th><th>Phase II Entities~~Municipality~~</th><th>Impaired Water Body</th><th>Deliverables/Actions Required~~Waste Load Allocations~~</th></tr>
<tr><td colspan="4">Region 9: San Diego Regional Water Board</td></tr>
<tr><td>~~Chollas Creek~~
~~Dissolved Copper, Lead, and Zinc~~

~~Effective Date: October 22, 2008~~

~~Resolution No. R9-2007-0043~~</td><td>~~City of San Diego~~

~~City of Lemon Grove~~

~~City of La Mesa~~

~~County of San Diego~~</td><td>~~Chollas Creek~~</td><td>~~WLA~~
~~WLA for point sources is concentration-based, equals to 90% of Numeric Target value (generated from the CTR equations) after applying 10% of Margin of Safety.~~

~~TMDLs = WLAs = CTR WQOs * 0.9~~

~~Wasteload Allocations for dissolved copper, lead, and zinc~~

<table>
<tr><th>~~Metal~~</th><th>~~WLA for Acute Conditions – One-Hour Average = Loading Capacity* MOS~~</th><th>~~WLA for Chronic Conditions – Four-Day Average =Loading Capacity*MOS~~</th></tr>
<tr><td>~~Copper~~</td><td>~~(0.96) * {e^ [0.9422 * ln (hardness) - 1.700]}*0.9~~</td><td>~~(0.96) * {e^[0.8545 * ln (hardness) - 1.702]}*0.9~~</td></tr>
<tr><td>~~Lead~~</td><td>~~[1.46203 – 0.145712 * ln (hardness)] * {e^ [1.273 * ln (hardness) - 1.460]} * 0.9~~</td><td>~~[1.46203 – 0.145712 * ln (hardness)] * {e^[{1.273 * ln (hardness)} - 4.705]} * 0.9~~</td></tr>
<tr><td>~~Zinc~~</td><td>~~(0.978) * {e^ [0.8473 * ln (hardness) + 0.884]} * 0.9~~</td><td>~~(0.986) * {e^[0.8473 * ln (hardness) + 0.884]} * 0.9~~</td></tr>
</table>
~~WLAs are regulated through San Diego Municipal Storm Water Permit (MS4 Permit) under Order No. R9-2007-0001. The municipal Copermittees regulated by this permit that have jurisdiction in the Chollas Creek watershed are the City of San Diego, the City of Lemon Grove, the City of La Mesa, County of San Diego, and the San Diego Unified Port District. These municipal Copermittees have responsibility for virtually all discharges to and from the municipal storm water conveyance system in the watershed through mechanisms such as enforcing existing or adopting new local ordinances, implementing waste load reduction plans and conducting public outreach/education programs.~~

~~Over a 20-year compliance period:~~
~~Years Allowable Exceedance (% above)~~
~~1 100~~
~~10 20~~
~~20 0~~</td></tr>
</table>

ATTACHMENT G – Region-Specific Requirements
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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~Waste Load Allocations~~
Region 9: San Diego Regional Water Board			
Bacteria Project I – Twenty Beaches and Creeks in the San Diego Region (Including Tecolote Creek) *Indicator Bacteria* Effective Date: April 4, 2011 Resolution No. R9-2010-0001	22nd District Agricultural Association California State University at San Marcos Marine Corps Air Station Miramar Marine Corps Base Camp Pendleton North County Transit District San Diego State University San Diego Veterans Administration Medical Center University of California San Diego	20 impaired water quality limited segments within the following watersheds or portions of watersheds: Laguna/San Joaquin, San Juan, San Clemente, San Luis Rey, San Marcos, San Dieguito River, Miramar Creek, Scripps HA, Tecolate HA, San Diego River, and Chollas Creek.	~~*Waste Load Allocations for Municipal MS4*~~ ~~Watershed~~ / ~~Fecal Coliform WLA (Billion MPN/year)~~ ~~Wet Weather~~ / ~~Dry Weather~~ / ~~Enterococcus WLA (Billion MPN/year)~~ ~~Wet Weather~~ / ~~Dry Weather~~ / ~~Total Coliform WLA (Billion MPN/year)~~ ~~Wet Weather~~ / ~~Dry Weather~~ ~~San Joaquin Hills / Laguna Hills HSAs (901.11 and 901.12) 37,167 227 66,417 40 880,652 1,134~~ ~~Aliso HAS (901.13) 477,069 242 735,490 40 8,923,264 1,208~~ ~~Dana Point HAS ((01.14) 152,446 92 219,528 16 3,404,008 462~~ ~~Lower San Juan HAS (901.27) 1,156,419 1,665 1,385,094 275 16,093,160 8,342~~ ~~San Clemente HA (901.30) 192,653 192 295,668 33 3,477,739 958~~ ~~San Luis Rey HU (901.00) 914,026 1,058 1,300,235 185 14,373,954 5,289~~ ~~San Marcos HA (904.50) 6,558 26 23,771 5 298,430 129~~ ~~San Dieguito HU (905.50) 798,175 1,293 1,763,603 226 16,660,538 6,468~~ ~~Miramar Reservoir HA (906.10) 6,703 7 8,109 1 171,436 36~~ ~~Scripps HA (906.30) 101,253 119 232,035 21 3,447,764 594~~ ~~Tecolote HA (906.5) 126,806 234 471,211 39 5,136,598 1,171~~ ~~Mission San Diego/Santee HSAs (907.11 and 907.12) 221,117 1,506 890,617 248 10,790,520 7,529~~

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities~~Municipality~~	Impaired Water Body	Deliverables/Actions Required~~Waste Load Allocations~~
Region 9: San Diego Regional Water Board			
			~~Chollas HAS (908.22) 252,479 398 802,918 66 9,880,784 1,991~~ ~~Over a 10+ year compliance period~~ ~~Years Exceedance Frequency Reduction (%)*~~ ~~P1 P2 P3~~ ~~5 50~~ ~~6 50~~ ~~7 50~~ ~~10+ 100 100 100~~ ~~P1 = Priority 1~~ ~~P2 = Priority 2~~ ~~P3 = Priority 3~~ ~~*For both dry & wet weathers~~**II** **Requirements for Implementing the Bacteria Project I – Twenty Beaches and Creeks TMDL** The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) must take the following actions to meet the requirements of this TMDL: 1. Develop and implement the Storm Water Pollution Prevention Plan (SWPPP) as required by section F.5.f.4 of this Order including additional measures necessary to achieve reductions in fecal coliform, enterococcus, and total coliform by the final compliance dates as required by the TMDL. The SWPPP must include short term and long term Best Management Practices (BMPs) strategies appropriate for the prioritization schedule in Attachment A pages A-63 through A-65 of Resolution No. R9-2010-0001. 2. By [Hard Date: 3 months from adoption date] monitor discharges from their facilities including MS4 discharge locations to demonstrate progress towards compliance with final waste load allocations. The monitoring and assessment results must be submitted as part of the Annual Reports required under section E.16 of this Order. 3. The Permittees are encouraged to collaborate and coordinate with Phase I MS4s and other responsible parties to the Bacteria I TMDL using an adaptive framework approach as part of the waste load reduction planning and implementation strategies in the required SWPPP pursuant to

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	Phase II Entities ~~Municipality~~	Impaired Water Body	Deliverables/Actions Required ~~Waste Load Allocations~~
Region 9: San Diego Regional Water Board			
			section F of this Order. Coordinated efforts by all responsible parties will accomplish the waste load reductions required in the TMDLs faster and achieve the ultimate goal of improving water quality as soon as possible. The wasteload allocations (WLAs) identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final Dry Weather WLAs are to be achieved by April 4, 2021. The TMDL also specifies that the final Wet Weather WLAs are to be achieved by April 4, 2031 (April 4, 2021 if SWPPP does not contain load reduction programs for other pollutants).
TMDL for Los Peñasquitos Lagoon *Sediment* Effective Date: July 14, 2014	Marine Corps Air Station Miramar San Diego Veterans Administration Medical	Los Peñasquitos Lagoon	**Requirements for Implementing the TMDL** The Phase II entities identified in this TMDL section (hereinafter referred to as Permittees in this TMDL section) must take the following actions to meet the requirements of this TMDL: 1. Develop and implement the Storm Water Pollution Prevention Plan (SWPPP) required by Provision F.5.f.4 of this Order to achieve reductions in sediment by the final TMDL compliance date. The development of a SWPPP to address the TMDL fulfills the responsibility for Phase II Copermittees

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TMDL Effective Date Basin Plan Amendment (BPA) Water Board Resolution No.	**Phase II Entities** ~~**Municipality**~~	**Impaired Water Body**	**Deliverables/Actions Required** ~~**Waste Load Allocations**~~
Region 9: San Diego Regional Water Board			
Resolution No. R9-2012-0033 **TMDL for Los Peñasquitos Lagoon** *Sediment* (Continued)	Center University of California San Diego North County Transit District		to prepare a Load Reduction Plan (LRP). The SWPPP must be updated by [Hard Date: 12 months from adoption] with any additional BMPs, monitoring, or other measures needed to account for the Phase II site's potential to impact the receiving water body with respect to sediment. Permittees are responsible for reducing their sediment loads to the receiving water body or demonstrate that their discharges are not causing exceedances of the wasteload allocation. 2. By [Hard Date: 3 months from adoption date] monitor sediment discharges from their facilities including MS4 discharge locations to demonstrate progress towards compliance with final waste load allocations. The monitoring, at a minimum, shall include representative flow rates and total suspended solids concentrations from individual discharger's facilities. The monitoring and assessment results must be submitted as part of the Annual Reports required under section E.16 of this Order. 3. The Permittees are encouraged to collaborate and coordinate with Phase I MS4s and other responsible parties to the Los Peñasquitos Lagoon Sediment TMDL using an adaptive framework approach as part of the waste load reduction planning and implementation strategies in the required SWPPP pursuant to section F of this Order. Coordinated efforts by all responsible parties will accomplish the waste load reductions required in the TMDLs faster and achieve the ultimate goal of improving water quality as soon as possible. The wasteload allocations (WLA) identified in the Fact Sheet of this Order are incorporated by reference. The TMDL specifies that the final WLAs are to be achieved by July 14, 2034.